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## Aid to star-gazing in Munich

## IMPROVEMENTS TO THE PLANETARIUM

Space begins for the people of Munich on a platform built on a massive bunker tower nearly 100 feet above Ramersdorf. Since 1947 this has been the operations location of astronomers of the Munich star-gazing institute. There were more than 3,000 visitors and over 100 school children paying a visit to the star-gazing institute in 1969.

Head of the organisation, Hans Oberndorfer said: "We have tried to create for the star-gazing institute further important improvements without disrupting our current business."

In the north-west corner of the tower platform, over 200 square yards in area, there has been built a shining aluminium cupola, nearly twenty feet in height with a revolving roof, which can be opened by means of locking slot, rather like a visor. The cupola was specially built by a firm dealing in such structures and the interior equipment and six inch refractor with a focal distance of 2.3 metres was built by members of the star-gazing institute and took several months.

Rudolf Pleser, who is the institute's technical chairman said: "In 1969 more than 2,000 working hours were put into

this project, and further additions to the institute's equipment."

The six-inch refractor is, however, just a temporary solution. The astronomers are already working on an even larger telescope for their cupola.

Astronomers at the institute are particularly pleased that they can travel up by lift "into space". "Since we disposed of the tiresome necessity of climbing stairs and installed the lift the number of visitors has increased noticeably. We are particularly pleased that now many more older people are coming to star-gaze," said Hans Oberndorfer.

The last part of the climb is over a new spiral staircase directly on to the observatory while the ladder which has had to be used up till now serves as an emergency exit.

Rebuilding operations have included the setting up of an exhibition room with models of the moon's surface and dedicated to space travel.

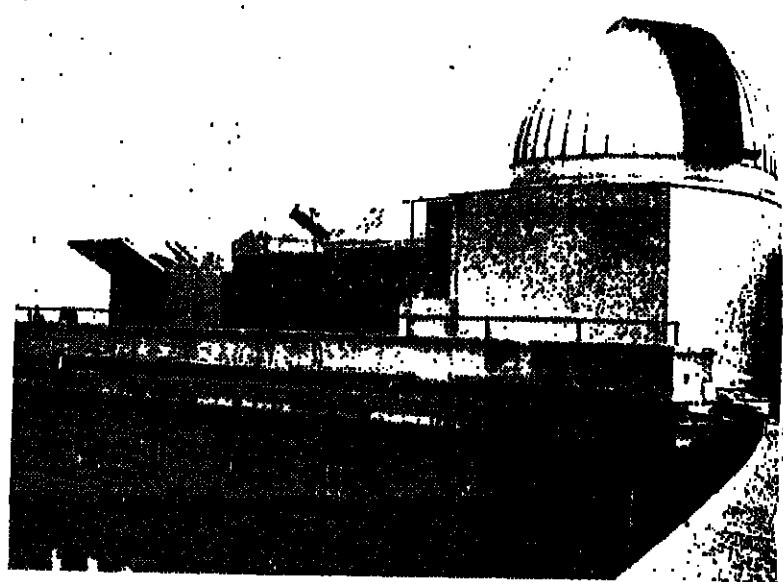
In another exhibition room budding astronomers are shown how they can either purchase or build their own telescopes.

Nearby in the institute's technical centre a modern quartz clock keeps time with an accuracy of one milli-second. In this room too is the special radio receiving equipment for signals from artificial satellites. Pendulum clocks showing times all over the world are fixed to pillars which protect them from shock. Also

here are to be found the frequency generators which direct the telescopes on the roof to the orbits of planets.

For time and money reasons the three-metre radio telescope is still incomplete. Ivar Naujoks, head of the radio astronomical department said: "With this equipment we will be fully prepared to pick up radio messages from lunar expeditions and we have planned for 1970 to make a big push to bring the radio telescope into action."

So that such work and similar projects can be carried out the star-gazers have set up a well-equipped workshop with everything required for building telescopes and other precision equipment.



The observation platform of the Munich planetarium

(Photo: H. Bernhard/Archiv Voller)

On the observation platform visitors gather on the open days, evenings which take place every Wednesday and Friday between eleven o'clock. On a clear evening use the large and small telescope with expert guidance make their bound trip into space. In the last introductory lectures about the night sky are given illustrated films.

In conjunction with the Munich education college two courses on astronomy were given last year. On 14th of this year a course began dedicated to do-it-yourself telescopes and astronomical observation.

(Allgemeiner Merkur, 2. Januar)

# The German Tribune

A WEEKLY REVIEW OF THE GERMAN PRESS

C 20725 C

Hamburg, 3 February 1970  
Ninth Year - No. 408 - By air

## Ulbricht will have to come to the negotiating table

The intra-German dialogue can begin. East Berlin has meanwhile received the offer to negotiate. Willy Brandt's letter to GDR Premier Willi Stoph is short but to the point, setting up new cardinal points in Bonn policy on the German Question.

This is not the first time a Bonn Chancellor and an East Berlin Prime Minister have corresponded. A number of pointless attempts were undertaken in the my were given last year. On 14th of this year a course began dedicated to do-it-yourself telescopes and astronomical observation.

The Federal government now works on the assumption that two German states exist, which represents an entirely new basis for policy towards the Eastern Bloc. Striving for the phenomenon of reunification is no longer at the heart of Bonn's

Against the background of the claim to the sole right to represent the German people renunciation of the use of force could hardly fail to appear open to question, not to say untrustworthy, in respect of Eastern European countries.

To regard Bonn's offer of negotiations with East Berlin merely as a move designed to flank talks with other Eastern European countries would be to underrate it.

What is intended cannot but be an attempt via Moscow and Warsaw to force Ulbricht to parley, so rescuing the last remaining link between the Germans that Willy Brandt feels exists: the feeling of belonging together as a nation.

The more progress talks with Moscow and Warsaw make, the more improbable it is that East Berlin will in the long run be able to maintain its resistance to negotiations with Bonn.

Herr Ulbricht will not continually be able to refuse to have anything to do with the aims of what to date have been his most loyal allies. He may be playing for time but there are limits even to this factor in political transactions.

The Federal government has not made it easy for Walter Ulbricht to say no at this early stage of intra-German proceedings even though initial East Berlin commentaries have registered with disappointment that Willy Brandt did not deal with the GDR's draft treaty in his letter.

Bonn has kept to the approach adopted towards the Eastern Bloc as a whole. It prefers to negotiate topics for discussion in the course of preliminary talks rather than to enter into negotiations with a shopping-list already drawn up.

This is the only interpretation that can be made of the Chancellor's offer of "a wide-ranging exchange of views on the settlement of all issues outstanding between our two states, including those relating to ties on the basis of complete equality."



German Democratic Republic officials delayed traffic to and from West Berlin many hours when Bundestag committees met in the city at the end of January.

(Photo: dpa)

## Bonn's friendship with U.S. continues

In his State of the Union address President Nixon unmistakably stated that his administration intended to operate on the basis of a sober assessment of the world situation as it is rather than on what might have been necessary and to the point twenty-five years ago. He also brought to the fore the goal of a new deal in relations with the Soviet Union.

The one is an apparently irrevocable decision to free America from the obligations and burdens deriving from the role of world policeman, the other America's intention of guaranteeing the balance of world power by reaching a modus vivendi with the Soviet Union.

Insofar as the will to bring about a relaxation of tension is the driving force behind declared American policy, no Federal government in Bonn could swim against the current without damaging its own interests.

As long as Bonn's policy towards the Eastern Bloc retains a connection with Western endeavours to bring about a peace settlement it remains altogether in line with the views of allied governments on whose confident support Bonn is dependent.

Chancellor Willy Brandt convincingly took these circumstances into account in his letter to the German-American conference in Bonn, that as far as the Federal Republic is concerned there can be no question of a policy that could make it a plaything and victim between the world powers.

Pundits who visualised a decline in Western confidence in Bonn as soon as the present administration materialised some months ago need not have worried. There could be no more unconditional acknowledgment than that friendship with America is irreplaceable and that policy towards the West remains the sine qua non and backbone of this country's foreign policy.

(Ständesache Zeitung, 26 January 1970)

## Frankfurter Allgemeine

ZEITUNG FÜR DEUTSCHLAND

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endeavours. The goal is a change in intra-German relations on the basis of present realities.

The Federal government is trying by means of this new approach to pave the way for talks with Moscow and, shortly, Warsaw and also opening up the possibility of intra-German discussions.

This new policy towards the East must needs be based on the existing situation.

## Successful trade talks with Polish Minister

The protracted trade talks between this country and Poland will reach a successful conclusion before the end of the month, it is assumed in Bonn.

Negotiations have without doubt been accelerated by the visit of Polish Foreign Trade Minister Janusz Burakiewicz, who took the opportunity of a long-extended invitation by Economic Affairs Minister Karl Schiller to attend the opening ceremony of a Polish export drive in Düsseldorf.

Dr Schiller met his guest twice over a meal. The atmosphere was relaxed and, according to the short communiqué issued by his Ministry, cordial.

The importance attached to the visit can be judged from the fact that Burakiewicz is the first Polish Cabinet Minister ever to pay this country an official visit.

Top-level talks were held in confidence. At the Economic Affairs Ministry only Dr Schiller and his Parliamentary State Secretary, Klaus-Dieter Arndt, and Minister Burakiewicz and chief de mission Piatkowski of the Polish trade mission in Cologne took part.

Both sides reiterated interest in expanding trade and cooperation between Polish and Federal Republic firms, which is not to say that there will not be many a nut to crack before the level of trade the Poles have in mind is reached.

The Common Market agricultural agreement, to which in any case no alterations can be made, are likely to be of minimal importance. Poland is interested in increasing industrial exports to this country.

Continued on page 2

## ■ FOREIGN AFFAIRS

Russia tries and tries again  
with her Arab policy

Until recently the prevailing view has been that over the past few years Russia has made the centuries-old Tzarist dream of advancing into the Mediterranean and gaining a foothold in the Arab world come true.

Of late an increasing number of people have voiced the contrary opinion that Russia has sided with the loser, sustained grave losses in prestige, money and armaments and is unable to extract itself from the situation without risking an even greater political debacle.

Until 1967 Soviet expansion did indeed seem to be working according to a master schedule. The Soviet Mediterranean fleet with its port facilities in friendly countries on the East and South-East coast of the Med may not have reached the strength of the US Sixth Fleet but it did

make a re-run of Western intervention as in Lebanon and Jordan in 1958 most unlikely.

In May 1967 the prospects of extension of Soviet influence in the southern sector of the Middle East — the Red Sea, Persian Gulf and Indian Ocean — seemed particularly good. Britain was on the point of withdrawing from South Arabia, leaving behind a vacuum and in Yemen the Egyptians, using Russian weapons, were fighting to gain control of the Red Sea coast from Hodeida to Aden.

This entire development was brought to a halt by the Israeli Six-Day War. The blockade of the Suez Canal cut off units operating in the Red Sea from Mediterranean squadrons, the Egyptians withdrew from Yemen and Somalia veered away from a pro-Soviet course in bitter disappointment.

In the Persian Gulf conservative forces regained lost ground — due in no small measure to the increasing dependence of Egypt on financial support from the Gulf.

At the same time the entire world was shown that Russian armament is no guarantee of victory and that Soviet-trained troops can be beaten — without the Kremlin intervening.

There was no other solution to the dilemma than to try again. More and better tanks had to be supplied, more and faster missiles, more and heavier artillery, Mig 21s instead of Mig 17s and more instructors and technicians.

Nowhere in the world is the presence of foreign experts who feel superior to the natives popular and certainly not among the Arabs. There is a world of difference between trusting symbolically in Mother Russia as the protector and having to deal with the irritation caused by Soviet specialists and commissars whose mentality and methods are a far cry from those of their Arab proteges.

On the one hand the Arabs press the Soviet Union to do more for them, on the other Moscow is once again running the risk of sustaining a major loss of prestige as a result of the incompetence of its Arab clients.

It was by no means pleasure unalloyed for the Russians to see first Mig 21s fall undamaged into Israeli hands. It was even more embarrassing when the Egyptians surrendered an undamaged SA 2 missile without a fight.

The Israelis are not the only ones who are wondering how much further Moscow can go in handing over military secrets to the Arabs. Were the Kremlin to draw the appropriate conclusions and be more careful about supplying up-to-date weaponry Arab dissatisfaction would increase and



Arab military inferiority become even more serious.

In countries such as Syria and Iraq there is already a tendency to cast aside the Kremlin's apron strings. Egypt on the other hand, Moscow's most expensive protege, threatens by means of unwise and precipitate action to provoke a confrontation the Soviet Union would prefer to forestall.

The Kremlin could not afford to stand by and watch its allies be defeated and its costly armaments destroyed or captured a second time.

The bottomless pit of money and material invested and prestige and trust forfeited in making the Middle East into a Soviet Vietnam, the difference being that the blood shed is not Russian but Egyptian and Israeli.

The Russians are reported not to be entirely unhappy at the prospect of France and Britain competing to supply the new military regime in Libya with fighters and tanks. The moral defeats, financial losses and political setbacks Moscow has sustained in this part of the world since 1967 ought to be enough to make the Kremlin think twice before taking on new commitments.

Harbert Freedren

(Frankfurter Rundschau, 21 January 1970)

Lessons on avoiding 'a Red  
Riding Hood' situation

One are the days when any and every political advance made by Bonn was greeted in Eastern Europe with a monotonous barrage of insults. Alleged disappointment is the tenor of Eastern European commentaries on Willy Brandt's situation report; yet even the disappointment is benevolent.

Instead of treating all alike almost pedantic appraisal is made. The same yardstick is not being used everywhere.

Commentators are no longer entirely agreed whether Brandt has taken a "step backwards," as the Bulgarian press writes, "not much of a step forwards," as Hungarian newspapers put it, "so small a step forwards that it takes a magnifying glass to measure it," as Radio Warsaw reckons, or, really, "a step further," as a Yugoslav commentator maintained.

Even Pravda has so far concentrated more on analysis of the contradictions in Bonn's policy than on wholesale polemics. Yet all seemed relieved that Ulbricht's press conference proved to have been not a blockade manoeuvre but a decidedly flexible defensive move.

Walter Ulbricht can count on the full understanding of his allies in trying, as he put it, to avoid a 'Red Riding Hood' situation. None of his allies has any intention of "throwing the interests of the GDR on to the market of the

imperialist wolves," as Zeri Populit, the Albanian party daily noted.

Even China's Albanian mouthpiece differentiates, though. "We do not believe that the Soviet revisionists are prepared to sell the GDR for a song. In selling the supreme sovereign interests of the GDR they have in mind the creation of a Greater Germany well-disposed towards themselves, a broad neutral zone equidistant from the two superpowers and a guarantee of the imperialist-revisionist plans for peace in Europe and war in Asia."

There is a not entirely irrational basis for this gross exaggeration. Ulbricht too went to pains to paint in dark colours the ideological danger of West German imperialism, a topic that has been neglected of late by his allies.

One characteristic of the more critical commentaries on the Bundestag session in question is particularly noteworthy. The contradictions in Brandt's argumentation, half-splitting between international and

inter-state law as regards recognition, for instance, is dissected logically, not ideologically in Eastern Europe.

Eastern Europe's response shows three things. The GDR can only maintain its powerful position in the Eastern camp by gradually foregoing its guardianship over all-communist policy on the German Question.

For Moscow, and still more for its allies, it is more important that the potential of West Germany be made a security factor in Europe than maintained at crisis level in the interest of the GDR.

Even so, the risk inherent in any lessening of confrontation, particularly the ideological variety, for all Eastern European Communist Parties reduces their diplomatic leeway in respect of this country. Their disappointment at Brandt's apparently illogical approach is thus probably less than their relief at the gain in time.

Hansjakob Stehle

(DIE ZEIT, 23 January 1970)

EEC financial  
troubles remain  
unsolved

The old diplomatic saw that the is to be found in the details of agreement has been reconfirmed by Brussels deliberations of the EEC Ministers.

What was hailed shortly before the tour of the Federal Republic talking to the soldiers, officers and generals columns as agreement in principle of a future financial of the European Market has now turned out to be a labyrinth in which the battle cries surrounding the political unification of the World could get lost.

In December the Federal government declared itself ready to take on the share of the financial burdens of agricultural market, the principal activity of which is France.

The pill was sweetened by the progress of political progress. From 1970 in the European Parliament in Strasbourg the final say in deciding the situation of this country's armed services policy in the Common Market budget.

Blinding majority decisions by the European Parliament would involve a loss of sovereignty on the part of member-countries, and this is the on which orthodox Gaullists are the difficulties for members of the Cabinet who are better-disposed towards European integration.

General de Gaulle, whose slogan serving shows an increase. Calls to dodge the draft have gone down and disturbances in the internal administration are decreasing.

Certain legal measures are working towards the improvement of standards in the Bundeswehr. These ideas are to a certain extent being borne out by the troops. On the other hand there are officers who consider the overall state of the Bundeswehr to be just as unsatisfactory as ever.

Once again there is a line separating the generations. Younger people consider certain aspects of the report much too dramatic. But they can go along with its content to a certain extent. Older officers find the tenor of the report completely normal. But they are not in total agreement with certain of the conclusions it draws.

Rejection of the report goes hand in hand with satisfaction that it has at last said what many people have been whispering for a long time. Reactions are diverse.

This is no small wonder. Reichswehr, Wehrmacht and Bundeswehr are crowded together in this one Army. Those aspects called the unity of the Army can only be developed slowly. Added to this there is the fact that social welfare policy is

## ■ ARMED FORCES

## Refractory youth and the Services

'CONSIDERATIONS OF ORDER WITHIN THE ARMY'

changing the nature of the troops and producing a young type of soldier of a very particular kind.

He is not the sort who can easily be drummed into a predetermined military scheme. And the democratic nature of a liberal thinking Federal Republic does not allow for the prescribed rights of protest for the individual to be waived by particular military laws.

It is not only the Bundeswehr that has to deal with such problems. In many armies of the Western world military ideas, traditions and demands for obedience and discipline to the military machine come into conflict with the new reality of refractory youth.

This type, who has grown up in an age of industry and been spoiled by material wealth takes an entirely new attitude towards death, which to date has always formed the background of a soldier's life. Military service is a contradiction of everything that has meant anything in the former life of a such a person.

Thus the Vietnam War led to demonstrations on the part of American youth. The French Army was not spared the wrath of students in revolt.

French General Combeaux wrote a disturbing article last year about the internal revolt of French troops.

The Army is being filled with those young people who in May 1968 put the State, society and law and order, in fact practically everything, under the critical microscope.

The situation in the French Army corresponds the most to that in the Bundeswehr. In it, too, there is a corps of officers that cannot be regarded as a unity. Petainists, Gaullists and fighters of the anti-guerilla war have only one thing in common: nostalgia for the lost colonial

empire that was their military empire.

The force de frappe is no substitute. It is essential to state that the problem of our armies is not equipping and arming them. It lies in their past. Social welfare policies and not military policies determine the quality of a modern army. The slogan that there must be a reform of the Bundeswehr therefore is erroneous.

From the military and technical point of view the state of this army could almost be described as outstanding. Nor can there be any complaints about waning interest. The passionately heated discussion about the report on the Army shows how much members of the public are caught up by the theme.

We have all learned something from this discussion it is to recognise that the perfect army of yesterday no longer exists.

The adventure of war, the romance of battle, the mystic side of dying in service have been transformed by modern means of warfare into complete misery, chaos and genocide. The very thing that war is intended to preserve it destroys: our society as it is.

For this reason the officer corps cannot stop protesting.

For this reason, too, governments will shift the accent of their national security policies to political matters. Once again armies have, as in a phase of absolutism, a duty rather to be on the spot than to fight.

They are one element of defence, but not the only one.

The duty which confronts military leaders to create greater and more reliable security despite those factors has become more difficult to perform. But performed it must be.

Adelbert Weinstein  
(Frankfurter Allgemeine Zeitung für Deutschland, 17 January 1970)

Disturbing figures  
of 'disturbed'  
recruits

Since the Bundeswehr was founded over 300 soldiers have had to attend the Munich nerve clinic. Most of them had neuroses.

These figures have made several psychiatrists ask what special neurotic disturbances can be expected to result from service in the Federal Republic armed forces.

Dr H. Dietrich of Munich University considers that the various symptoms noted in the soldiers point to the fact that there is not one single neurosis afflicting conscripts.

Naturally the effects of serving with the Bundeswehr do not work on everyone called up. But when young people came to the Army from a background of excessive strain or domestic difficulties which had lowered their resistance they were often subject to depressions and feelings of tension.

In cases such as this there was only one cure. The soldiers so afflicted had to be discharged early.

(Frankfurter Rundschau, 21 January 1970)

No intentions to  
outlaw NPD

No plans are forthcoming from the Bonn government at present to try to introduce a ban on the National Democratic Party (NPD).

Minister of the Interior Genscher considers that a ban on the party would only be in order if it constitutes a danger to the fundamental peace and order within the Federal Republic.

(Münchner Merkur, 21 January 1970)

More money needed for education,  
science and research

Kurt Tucholsky said that national economy is a state in which people are puzzled why they have no money!

Converting this witticism of the satirist of fit present day affairs it could read: the national economy is that state in which people are puzzled that come boom, come slump there is not enough money in the national coffers to finance an expansive education policy.

Bonn Finance Minister Alex Möller has, every bit as much as his counterparts in the Federal states, sufficient money to cover arrears for the education programme.

But for economic reasons a certain amount of money coming in must be held in reserve, since costs and prices are rising all around, now more than ever. To build schools and universities in the grand old tradition, take on new staff in great numbers and raise salaries of present staff would put a great strain on budgeting.

Certainly the State can afford to do this, but only if it cuts down on spending in some other direction.

But this is precisely the matter that does not seem to bode well for the socialist liberal coalition in Bonn. The budget of the Federal Ministry for Education, Science and Research should be raised by forty per cent. That is gratifying.

This would mean that the expenses for this branch had never been so high, although it must not be overlooked that

while Gerhard Stoltenberg was in office he put through extensive increases in expenditure.

But extensive increases are expected in the Defence Ministry's expenditure and that of the Ministry of Agriculture, too.

Is it not conceivable that we could cut down on defence expenditure since, as the Defence Minister himself said, we live in peaceful times?

And how much longer must we endure millions and millions of Marks being wasted on trying to bolster up our outdated agricultural structure? This is an awful heritage from the days of the Christian Democrats. But sooner or later there must be an end to it.

This government when it came to power promised to be an organ of domestic reform. The men who are now Bonn ministers published a programme during the election campaign and they have promised "us time and time again that this was worked out in great detail." The present Finance Minister also took this point of view and for this reason he looks rather uncomfortable in the role of the "head of the family" keeping a tight hold on the purse strings, but having to fork out at the dictates of spendthrift Cabinet colleagues. The SPD entered the arena as a team and it must continue to act as a team.

Last there be any misunderstandings: I am not saying that our Cabinet of domestic reformers can concentrate on edu-

cation policy. There are other problems to be solved, although these may not stand at the centre of public interest. For instance there is the question of modernising the civil service.

And when it comes to education policy it is not the central government alone that has to act.

A planning committee for future further education establishments has commenced work in Bonn.

The regional assemblies are required to take care of education expenditure when they are working out their budgets.

But the sums of money involved can be queried by the regional parliaments.

Nevertheless the main burden of expense for education lies with local governments.

Prime Minister Hans Filbinger of Baden-Württemberg, therefore, is calling for a greater share of taxes for local governments.

Who will guarantee that any extra finances given to the state governments for this purpose actually go towards the intended expenses?

This is a complicated problem peculiar to the system of federated states. But this much is sure. In a year's time the question will not be: who was responsible for what? but: what improvements have been made to the further education system?

Unrest will burst into flames if this question is not answered whether it be asked in Bonn, Wiesbaden, Stuttgart or Kiel.

Talk was once about the victims of the education system. But it could be a question of smaller profits and higher costs.

Horst Köpcke  
(Frankfurter Rundschau, 21 January 1970)

## The German Tribune

PUBLISHER:  
Friedrich Reincke  
EDITOR-IN-CHIEF:  
Eberhard Wagner  
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Friedrich Reincke Verlag GmbH,  
23, Schoene Aussicht, Hamburg 22  
Tel.: 2-20-12-56 • Telex: 02-1473  
Advertising rates list No. 7

Printed by:  
Kreyer Buch- und Verlagsdruckerei  
Hamburg-Blankenese  
Distributed in the USA by:  
MASS MAILINGS, Inc.  
540 West 24th Street  
New York, N.Y. 10011

All articles which THE GERMAN TRIBUNE republishes are published in cooperation with the editorial staffs of leading newspapers of the Federal Republic of Germany. They are complete translations of the original text, not abridged or editorially redacted. In all correspondence please quote year of subscription number, which appears on the right of the masthead.

Majority in favour  
of talks with  
East Berlin

Seventy-nine per cent of over 21's in the Federal Republic are of the opinion that Bonn should sit down at a table and negotiate with East Berlin.

The Wicket Public Opinion Poll Institute in Tübingen discovered this in a lightning survey conducted on 978 people within the space of twelve hours.

A similar survey in the second half of last December showed that 70 per cent wanted talks with the other sector of this country.

But the Wicket Institute adds that at the moment only 24 per cent of the people questioned are of the opinion that such talks will be of any use to the Federal Republic and the GDR in their relations to each other.

The survey showed that thirty per cent had more optimistic expectations.

(Süddeutsche Zeitung, 21 January 1970)



## GOVERNMENT

## The cost of an ex-Chancellor

STATE TAKES LIBERAL ATTITUDE

Since Ludwig Erhard resigned in 1966, political circles have realised that there is a certain uncertainty even in being Federal Chancellor.

This is a completely new experience for the Christian Democrats (CDU) who had always provided the Chancellor. Under Konrad Adenauer the occupation of the post scarcely figured in the discussion on the Cabinet list. This institution had become institutionalised.

The CDU treasurer now as then cannot be feeling too well when he thinks of financial considerations concerning the former Chancellor.

He was faced with the question in 1967 of whether ex-Chancellor Erhard should, as CDU Party Chairman, receive regular payments from party funds that were then in the red.

The example of Adenauer could frighten a party balancing on the edge of a financial abyss even though Ludwig Erhard was not such a great monument for the CDU as Konrad Adenauer.

The Christian Democrats allowed their honorary chairman, as Adenauer had meantime been designated, an office with three secretaries and a personal adviser with the rank of a ministerial director, a position that has a salary of 4,500 Marks a month.

But this was not all. The party financed and maintained Adenauer's aide. The ex-Chancellor's own Mercedes 300 was provided with petrol from party funds. The Grand Old Man of the CDU cost more than 15,000 Marks though he could in no way be called poor. After his resignation as Federal Chancellor in 1963 he was receiving about 9,000 Marks a month from his Chancellor's pension and his income as a member of the Bundestag.

In 1967 Erhard had to be taken care of and the party had to decide whether to grant him the same conditions as it had his predecessor, Adenauer's death in April of that year topicalised the issue.

But the CDU escaped a further massive outflow of funds because the Bundestag, when passing the 1967 budget, also decided on a CDU/CSU motion to create a meaningless item that had been approved by the Cabinet.

This meaningless item, an additional outlay in the current financial year, was used for the direction of secretariats for former Federal Chancellors according to which a former Federal Chancellor can have placed at his disposal for a maximum of three years a number of staff and a chauffeur to help him attend to his duties.

Ludwig Erhard was the first ex-Chancellor to receive a contribution from the state on top of his pension. The sum was quite sufficient at first. Federal Finance Minister Franz Josef Strauss fixed the first year's payment at 85,000 Marks. In future the Bundestag was to consider the post itself and the amount of money to be paid at its annual budget debates.

And this did happen. State donations to the former head of government met with strong criticism. But nobody doubted the fact that a Federal Chancellor had to attend to many things for a certain transitional period, after leaving his post.

But as early as 1968 the payment no longer ran smoothly through the wilderness of papers dealt with by the budget committee. The 85,000 Marks provided for in the draft were cut, leaving the problem of how to finance Erhard's office. The problem was then subtly solved. Costs were now borne by the Chancellor's Office. Though it did not

receive special instructions to this effect — this was not necessary — the Chancellor's Office put the necessary auxiliary finances at its former head's disposal. This continued until the end of 1969 and was then stopped.

Now another ex-Chancellor deserving payment has appeared on the scene Kurt Georg Kiesinger, — and at an inopportune time for the CDU. Apart from being Chancellor, Kiesinger was leader of the Christian Democrats and has therefore the same qualifications as Adenauer and Erhard.

The Ministry of Finance is now considering whether Kiesinger should have the costs of running his office paid through the budget or not. Although there has been no answer at all yet the CDU hopes that the Social Democrats will show foresight in dealing with the issue as they themselves will one day have to provide for an ex-Chancellor.

For the time being the CDU has found, with a great deal of trouble, a villa where ex-Chancellor Kiesinger can work. It was said that the party is making an appropriate contribution towards the rent. In return the party executive will meet in Kiesinger's villa in future.

In return for his efforts towards the well-being of the party Kiesinger is receiving from party headquarters a monthly expense allowance of a thousand Marks, a car with a driver and the cost of his office if the Cabinet and Bundestag decide not to give him too state payments for an interim period. Then Ministerial director Neusel, as Kiesinger's personal adviser, and two secretaries would have to be paid.

Ex-Chancellor Kiesinger seems to be uneasy already about the financial side of his departure from the peak of power, Palais Schaumburg. In an interview he said in worried tones that he might one day have to do something about raising additional income.

The man in the street will have some difficulty in sympathising with Kiesinger when his total income is calculated. As former Prime Minister of a Federal state he receives a monthly pension of 4,600 Marks. The money due to him as former Chancellor cannot be paid as he cannot draw two pensions in public service.

As a member of the Bundestag he has a tax-free income of 5,070 Marks a month though he does have to pay expenses from this. And what is there for him on top of that? Party headquarters answered this question with 7,500 Marks net.

Katharina Olters  
(Handelsblatt, 16 January 1970)

## President Heinemann has new ideas on protocol

Gustav Heinemann has once again shown how he views the office of Federal President. The New Year's reception held by the head of state was this time free from the normal strict rules of protocol.

The Federal President invited not only prominent people, but also apprentices, workers, employees, pensioners and war widows. A Turkish worker was also seen at Villa Hammerschmidt.

This is not the first time that Heinemann has acted in this style. On his initial visits to the Federal states after taking office he placed great store on being able to shake the hands of people from all social layers.

Those who attributed this in the past to



President Heinemann entertaining his guests at New Year reception

## Informality is the watchword at Villa Hammerschmidt

Federal President Gustav Heinemann once said that he liked to have all types of people around him.

Whenever he undermines protocol his action intends to reduce the gap between government and governed. There could scarcely be a better example of his efforts toward this than the New Year reception at Villa Hammerschmidt. As well as prominent politicians he had invited 21 citizens of all social levels.

Gustav Heinemann does not like the expression "man of the people." He believes that everybody belongs to this category whether or not he holds public office.

So the Federal President welcomed his guests as representatives of all the other people who could not be invited. His guests included nine employees of a Cologne firm, from an apprentice right up to the chief of personnel, as well as a Turkish worker, eight people who lived in old people's homes and three war victims and a nursing sister who had had to have her leg amputated.

Everything was quite informal at the Villa Hammerschmidt. The only ones in evening dress were the servants who waited on the guests with coffee, snacks and champagne. The Federal President had prescribed a plain dark suit for himself and his colleagues. Members of the Bundesrat (Upper House) and the Cabinet, as well as representatives of the political parties who turned up not long

afterwards, all complied with the man's wishes and left formal dress and their wardrobes. The guests' initial self-consciousness was quickly overcome. The tooling apprentice told the President of his further education after he had his apprenticeship.

Willy Brandt, with a healthy private concern, explained when they have to pay hospital bills or go on convalescent holidays, are being extended to workers and employees in life.

The politicians too liked the new, informal form of the reception. He Minister Lauritz Lauritzen pointed the differences to earlier New Year receptions: "Past years I've always stood the one spot. At least I can move now."

The Federal President was still a bit weak from a cold that he had quite got over but that did not stop him from devoting himself to his guests for two hours. He smiled at those asked and said, "I'm glad you are all here the end when he had to go to diplomatic reception he told his not to let that bother them. "Look at the house," he invited them.

Protocol was resumed in the hall where the guests were seated. The Federal President asked heads of the foreign missions to wear morning coats instead of the more formal evening dress with decorations as was

be normal.

Some diplomats turned up in cold uniforms however and many heads of African and Asian missions appeared in national costume to live up to the

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matic corps, praised the trend introduced by Heinemann during the first months of office.

In his short speech of thanks the Federal President said that the people of this country and the political leaders were ready to make sacrifices and put new courses in order to preserve it. Then President Heinemann was through the ranks of the 98 delegates and shook each one by the hand.

This was all according to the established by Eric von Papitz two years ago. But the morning reception at the Villa Hammerschmidt had shown the days of stiff formality in Bonn numbered.

Wulfert Hahn  
(Handelsblatt, 15 January 1970)

## ADMINISTRATION

## Civil services face a different future

PUBLIC ATTITUDE TO PUBLIC SERVANTS IMPROVES

One in ten employees in the Federal Republic works in the civil services. Professor Thomas Ellwein forecasts that the percentage will double by 1980.

A more cautious estimate comes from the President of the Federal Accounts Department Volkmar Hopf. He says that in ten years time one in eight will be employed in the public services.

At present about three million men and women are working for the government, Federal states, local councils and public corporations, including sickness benefit insurance firms and municipal and local organisations such as hospitals, transport services and kindergartens.

The civil service employs 1.33 million civil servants, 13,000 judges, 824,000 employees and 790,000 workers.

These figures are high and they could become even higher. Many citizens are alarmed when they see them, conjuring up the spectre of a society administered down to the last details. They fear for the freedom of organising their own lives as they will.

Wide sections of the public still have mental images of officials that live in the past. It is often overlooked that the number of those who are not prepared to serve the public but treat them curly and without ceremony is, thank goodness, decreasing.

The privileges of civil servants, their permanent position their generous pensions compared to employees in private concerns, subsidies paid to them brought back from Tunisia, explained when they have to pay hospital bills or go on convalescent holidays, are being extended to workers and employees in life.

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The demand still made from time to time to abolish the status of civil servant is based essentially on envy at the privileges that this status brings. But this is becoming superfluous now that honest efforts can be seen within society to remove all fears of possible dangers to the living of all employees, including those in private concerns, and ensure for them an appropriate income in their old age.

The professional image of the civil servant is changing automatically with the change in the state's understanding. In an authoritarian state subjects considered civil servants to be unapproachable bearers of majesty and critics preferred to see them as men who sat about all day and picked up a pension at the end of it all. But in the modern welfare state people are reader to recognise the function and usefulness of the civil service and officials serving in it.

They are aided in this by the fact that the number of civil servants employed in the maintenance of law and order has not increased as markedly as the number of officials, workers and employees in the social services or in authorities dealing exclusively with welfare. Those concerned with the maintenance of law now make up only a quarter of the total of civil servants and public employees.

All the same discontent is spreading through the ranks of this country's civil servants and this is based not only on the much vaunted need to catch up materially on other professions.

One reason is the rigidity of the professional regulations that prevents special performances being rewarded.

Then in many branches there is the impossibility of transferring from public service to a private concern. Where can 40,000 engine drivers use their acquired skills apart from with the Bundesbahn, Federal Republic Railways? And what use is a postman's training in a private concern? Only very few teachers can be taken on by private schools and the number of policemen able to find suitable posts in factories and private firms is equally as limited. They are all confined to their career.

Every career must have its end but this end seems to poor for many proficient civil servants. Its form is no longer compatible to the process of dynamic change in society caused by scientific and technical progress. These changes do not leave the public services untouched. The process of change will considerably

extend and alter the functions of public services.

An increasing population and its concentration in conurbations and the main provincial towns necessitates planning and building orientated toward the future. It is no longer sufficient for authorities just to react to the present situation. They must plan for the future.

As Volkmar Hopf said at a congress in Bad Boll, they must recognise environmental dangers and threats to the community earlier than is now the case and combat them more effectively. They must prevent damage caused by noise, chemicals and the misuse of drugs and medicaments.

In the eighties there will be three times as many motor vehicles on the road. Estimates reckon with twenty to 25 million cars alone. Road-building will have to increase at the same rate.

The provision of drinking water can also become a menacing problem if suitable steps are not taken in advance.

Amenities for leisure time activities such as sports grounds, culture centres and adult education institutes will become more and more important, not to mention the necessary increase of places at universities and technical and specialist colleges.

Municipal re-development, the opening up of convalescent areas in the neighbourhood, the construction of hospitals and old-age welfare will all demand greater efforts than ever before.

Hopf stated, "Public services in the social sphere will not increase so much in the field of ensuring the basic needs of life, a field that was once predominant, but will rise disproportionately in aid for institutions and certain situations."

All this demands a public service divided into many expert departments but capable all the same of attending to administration and making decisions. The modern welfare state does not give aims, only legal claims. Therefore all authorities must have knowledge of legal means. Instruction must point to the possibility of legal scrutiny.

Only a tiny part of the increase in functions can be dealt with here. But it becomes more and more doubtful whether the increase can be mastered by a civil service that forces its members into rigid, unchanging careers.

This country's Trades Union Confederation has therefore come up with propo-

sals for professional law reform. The four professional groups, simple, intermediate, elevated and higher service, should be abolished, it says, and replaced by seven professional categories. There will be no promotion of the traditional type within these categories. Instead the structure should be more flexible. Capable people should be allowed to rise to higher categories irrespective of the level of their previous education and instruction.

A division of civil service regulation into status and promotion rulings is also being pursued on the basis of resolutions at the seventh Trades Union Confederation and Civil Servants Congress.

But questions of pay and holidays should be dealt with by representatives of the civil service and an authorised wages commission.

Fritz Mörschbach  
(WELT DER ARBEIT, 16 January 1970)

Frankfurt judge introduces his own law reform

He is admired by many people for his upright attitude. Other colleagues consider him more as an irritating outsider.

But praise and criticism leave no impression on Amtsgerichtsrat Möller who long ago decided to renounce this title and now refers to himself merely as a judge.

For three months this young judge has put into practice a further stage in law reform. For a long time progressive jurists have tried to get official permission for this step. Now Judge Möller directs court proceedings without the usual robes.

Last October Möller gave a lecture to the Discussion Circle of Frankfurt Judges in which he critically examined the whole question of robes. As the ensuing discussion gave him no decisive argument for retaining the antiquated black garment he acted on his own initiative. "I did not want people to say that I was all speech and no action," he says.

Möller recently found unexpected support. "I respect his worship for not wearing his robe," said Defence Counsel Gols, especially as he considered the garment to be an example of pettifoggery. On saying this, he took off his own robe to underline the point. But no comment was made to his suggestion that the Public Prosecutor might also like to join him in wearing civilian clothes.

Judge Möller has not yet met with difficulties concerning his lack of robe, apart from the unconfirmed notification that some public prosecutors have refused to appear in his "civil" court.

Instead the spirited judge believes that he can claim the experience that witnesses and accused now behave more freely and openly since he left his judge's robes in their cupboard. And the two civil courts where judges have never ever had to wear robes have been encouraged to cooperate more actively.

On the other hand it is reported that the Frankfurt Lawyers' Chamber is still pursuing a predominantly conservative course. At least it is said that some lawyers who appeared in court without a robe have been reprimanded.

And when approached by a judge from Nidda the Ministry of Justice at Wiesbaden said that according to present regulations judges were still bound to wear black robes.

Many judges, Möller included, doubt this assertion. The question of clothing has been settled only by ministerial decree since 1956.

But perhaps this question already appears incidental since Judge Möller decided on his own but to wear civilian clothes in the courtroom, setting an undisputed precedent. It can only be hoped that more people follow his example.

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(DEUTSCHES ALLGEMEINES SONNTAGSBLATT, 15 January



## ■ ACTING

## Shortcomings of drama tuition

TOO MANY ACTORS AND TOO FEW PARTS TO PLAY

The producer called and a thousand young people heeded the call. From all parts of this country they came to Munich to seek their big chance in the hippy musical *Hair*. They paid their own fares and took auditions. They saw the tribal Rock musical as the first step to a stage career.

Thirty boys and girls were signed up, all dilettantes with absolutely no experience. The remainder, about several hundred young people, left for home dejected. Most of these had drama school experience but found that there schooling was unwanted. Their expenses claims have still not been met. This is the obverse of a coin that shines on only one side.

A further example of the distress of failure in the acting world is shown by the attempts of theatres in Bielefeld to find a Snow White for their Christmas pantomime. Many young actresses came forward. Of course they paid the costs.

A girl from Austria who had made the long journey from Vienna got the part since in the neighbouring Federal Republic drama schools the talents for such a demanding role are rare.

The fee for this young Viennese girl was higher than that for an actor who had been attached to this theatre for more than five years and received less than 800 Marks.

Another case can be quoted. An elderly gentleman wanted to become an actor. He presented himself at a drama school. He was a barber owning two shops which his wife and son could continue to run for him. The man was hoping to fulfill his childhood dream. He was turned down flat.

There is no shortage of young successors to replace old actors in the Federal Republic theatre. There is a flood of between 300 and 400 young "aspirants" each year who have passed their final exams in the eleven Federal states and hope to tread the boards. Theatre managers, out of the goodness of their hearts, hold auditions. Agencies supply names at random. All know full well that at the most there will be 75 vacancies each year for aspiring actors and actresses to fill. The rest disperse to big cities such as Hamburg, Berlin and Munich and try to carve out a career in films, radio or television, adding to the drama proletariat.

The excessive supply in the face of limited demand creates a complex of insufficiencies and problems. Actors have to take bread and butter roles and have no freedom of choice.

There are so many that the profession is degraded to a clique of young people grovelling for success, fame and money which quicker than might be expected turns into a deprived social stratum on the outside looking in.

There are about thirty drama schools in this country of varying quality. They are often attached to state-run further education establishments for music, or theatres as in Hamburg, Hanover, Essen, Bochum, Berlin, Stuttgart and Munich etc. Apart from this there are at least four times as many private drama schools of more or less worthy standards catering for budding actors in this country.

Whereas state run drama schools and those controlled by city councils as well as the few reputable private schools sift the wheat from the chaff and keep classes small many of the private schools and tutors cannot find enough scholars. They receive no subsidies from the council or the government. As a result their prices are prohibitively high. They have to charge between 15 and 50 Marks for three quarters of an hour whereas the monthly fees at a state drama school are only 75 to 200 Marks. And it is possible for students at these schools to hold scholarships.

One great handicap in this profession is freedom of choice. Every artist can and must train successors. Neither the Federal Republic Actors' Union nor the association for the acting profession in the Federal Republic can make recommendations at the behest of concerned parents nor warn parents or prospective students of certain drama institutes.

In many cases a budding actor seeks his further drama education in the telephone book. Entering the acting profession is a lonely business.

Both actors societies mentioned above slammed on the emergency brakes last year. Their syllabus for actors will include new disciplines in the final examination which cannot be given by a private teacher. They will give instruction in fencing, dancing, basics of folklore, movement, ballet, mime, musical training and lectures in the history of drama.

The demands of the modern theatre as well as the poor training given by many private teachers forced the actors' unions which it is hoped will become the basis of training in drama schools.

The signs are not always so clearly recognised and understood. Even at the state-run schools the instruction given is not always completely a propos.

Students are still studying the Classical roles after the same fashion as they were taught thirty years ago.

As far as *gestus* is concerned nothing has changed for years in teaching concepts. And diction is still taught following the dogma of the old text book *Der kleine Hey*.

One thing that is generally lacking is the space and atmosphere in which a young prospective actor can shake off all his inhibitions.

Those that make it — the lucky ones — become a cog in a large machine. The young actor is swallowed up in a company where he is relegated to part of the ensemble. He ceases to be a creative

## 'Living Theatre' is dead—long live the 'Open Theatre'

It was in 1947, that Judith Malina and Julian Beck, both from Erwin Piscator's New York Theatre Workshop, founded the "Living Theatre" in New York, the first off-Broadway repertory stage.

Their repertoire ranged from Racine to Brecht and Genet.

The theatre became world-famous with Jack Gelber's study of drugtaking, *The Connection*.

The company got into trouble with the authorities as a result of their premiere of Kenneth Brown's *The Brig*. This was produced by Judith Malina with a devilishly precise choreography of military terror.

For obscure reasons the theatre was closed and equipment was confiscated by the police.

Any other company would have given up, but not so the members of the Living Theatre. Its actors were not just part of it between eight o'clock and eleven o'clock every night. They gave up their whole existence to it.

The troupe emigrated to Europe and from 1963 onwards it played in Berlin, in

person and becomes just a tool of director, a computer, lacking in the originality, individuality and spiritual awareness which are part and parcel of craft.

The whole tutorial system is at fault. What is wrong with it? What must be changed?

An actor's right to ply his profession is not something that can easily be controlled by the statute book and parliaments have better things to do than their legislative procedures.

But to the new generation of critics, directors and theatre managers men a technique and knowhow no longer suffice.

They are aiming for change, new methods and the breakdown of dogma.

They want a greater effect on a theatre-going public, resulting from an expenditure, intensive work, rigorous discipline and absolute precision.

Hans-Eberhard La (Hannoversche Presse, 10 January 1970)

the Federal Republic and in other European countries.

One of the theatre company's great successes was the furor caused by its spectacular production of "Frankenstein".

The performance of the actors in production which bordered on witchcraft and was in every sense the craziest production that ever went out on a European stage.

The scenic ritual, *Mysteries* showed ensemble on a tack that it followed its suicidal persistence to the bitter end, it took made of the Living Theatre a bit with a view of what made the world leading to it giving its ideas on how world should be improved.

Meditation, preaching, announcements and agitation for a bloodless revolution in conjunction with abolishing the state police, bureaucracy and money took place of exact, scenic precision work.

"Paradise now" is the last stage of it. What actually came of this was of inevitable outcome of it all. What was the dissolution of the theatre company in its previous form.

The last performance of "Paradise now" coincided with the end of "Living Theatre". It had all the hallmarks of sensationalism in a positive as well as negative sense.

The "Forum Theatre" which gave protection to the guests from New York had rented the Sports Palace. But this huge structure could not cope with the rush. Over 5,000 people thronged into the seats along the gangways and the ground in front of the stage.

But this large hall played its part in the company's downfall. The actors were supposed to have a pacifistic anarchistic indoctrinating effect on the audience were lost amid the seething mass of human bodies. They were like proverbial needles in the haystack.

Their speeches were lost in the crowd particularly as the brightly dressed and once saw the entrance of the cast simply an excuse for them to show off.

One clique in the audience took over the stage and stamped around wailing rhythmically "ho, ho, Ho Chi Minh." Another in irony sang the chorale "Fürchtet euch nicht", while yet another gang beat out a rhythm on a drum that had brought with them. All this and more went on instead of the anarchistic freedom proclaimed by the Living Theatre.

Continued on page 7

'Living Theatre' in the last performance of 'Paradise Now' (Photo: Ise Buhl)

## ■ MUSIC

## Premiere of Keleman opera in Hamburg

We are living in an era of literary operas. Composers are combing literary history to find suitable material for their own genre.

Now even Albert Camus' *State of Siege* — performed for the first time in Paris in 1948 and since then seen on many stages all over the world — has been used as material for an opera ten years after the death of the French writer and Nobel prizewinner.

45-year-old Milko Keleman, the esteemed Yugoslav composer and also known in this country (he won Bonn's Beethoven Prize), arranged the text together with Joachim Hess, the producer of the premiere of the opera at Hamburg.

The drama was severely shortened to fit his demands. The play, originally in three acts, became a two-act opera. The work, commissioned by the Hamburg Staatsoper, barely lasts two hours and that includes the interval.

The events of the opera are concentrated on the main characters and the choir. The poetic background of the drama and all the significance of the writer's thinking have been omitted.

In the work of this great French playwright a tyrant — the Plague — takes possession of a Spanish town together with his secretary, terrorises its inhabitants and does not give up until the young freedom fighter Diego faces up to them and then dies for his ideals.

In his opera Keleman is concerned with the political topicality of Camus' allegorical play. The despotism of the Plague, personified as a dictator, and his secretary, the agent of destruction, is brought out succinctly.

But problems must crop up when a drama of ideas with continuous causality is reduced so radically into the framework of an opera. The dilemma appears even more decisively in the chorus role of the besieged facing the brutal terror and from whose ranks Diego rises as idealistic defender of their freedom against the threat of death. The chorus scenes lose their weight because the music masks the next to such an extent that hardly a word can be understood.

The opera begins in a deafening orgy of sound that dynamically intensifies the theme of plague until it becomes intolerable. The fact that this returns at the end of the opera shows that the threat is ever-present and is continually fighting against freedom.

Keleman does not act at all avantgarde in the inexhaustible organisation of groups of notes that are subject to continual dynamic variations. He has not used twelve-tone, serial or even aleatoric music. He attempts a synthesis of traditional and modern composition. His musical interpretation of the *State of Siege* is mid-way between Gregorian and electronic. In some choral scenes Keleman relaxes a little and even lets passages reminiscent of opera numbers show through.

By installing speakers throughout the auditorium Keleman granted the stereophonically controlled and electronically transmitted music no more than the usual significance.

Both soloists, who speak in an elevated style, sing: chant and scream, and the choir are often amplified through the loudspeakers. There is a certain distant quality to be found in Keleman's music, almost a de-humanisation. This is a dilemma he tries to conceal by using an opera-like scheme.

Keleman's montage style of acoustic phenomena between noise, ecstatic singing and electronics is not convincing.

Many of his effects have long been exhausted, primarily the glissandi, his use of percussion and the now clusters.

The musical drama and musical range of the composer do not seem sufficient for the intended new dimension of such an important and significant play. However much an opera tries to bring an allegory up to date it is a problematical form for such a burning political theme.

Compared to the shattering impression gained from Camus' play the opera has a weak effect. The emotions of fear, love, despair and destruction are not differentiated but represented in a pluralism of sound involving soloists, choir, orchestra and tape recorder. As Keleman himself confesses he desires to reflect the complexity of the basic thought of unending human misery.

But this all seems contrived, forced and not an organic part of the work. The text had already been led to the limits of expression by the playwright himself and needs no further intensification of musical interpretations. Is it not sufficient by itself? Volume and an elevated dynamic singing style alone cannot lead to the desired effect of the audience registering the theme of *State of Siege*. Camus' play does not seem to allow any more than sparing accompanying music to underline the most important stages and events. Arthur Honegger has already composed music along these lines for the play.

So why force a political play of this sort to fulfill an operatic purpose at all costs when the experiment must mean that the literary merit is weakened by the music as here?

The standard of the premiere found more sustained recognition than the work itself. Searchlights and projections were used. André Majewski's decor was retained throughout, subjected only to the many visual changes within its framework. Joachim Hess' direction seemed to be more intent on television effects.

Opposition was expressed only when the composer appeared after the final curtain.

The audience, including music and drama experts from far beyond the boundaries of Hamburg and even the Federal Republic, recognised without reservation primarily the majestic musical direction of Gregor Bohm, conductor of the Hamburg Philharmonic Orchestra, and the impressive performance of the splendid chorus under Günther Schmidt-Bohländer.

The casting of the solo roles once again showed the special quality of the Hamburg opera, and could hardly have been better. Baritone Raymond Wolansky was an excellent singer as the Plague, a part symbolising terror. Under strict direction Elisabeth Steiner stood at his side as secretary and accomplice.

Erich Lohmert (Hannoversche Allgemeine, 15 January 1970)

## 'Living Theatre' is dead

Continued from page 6

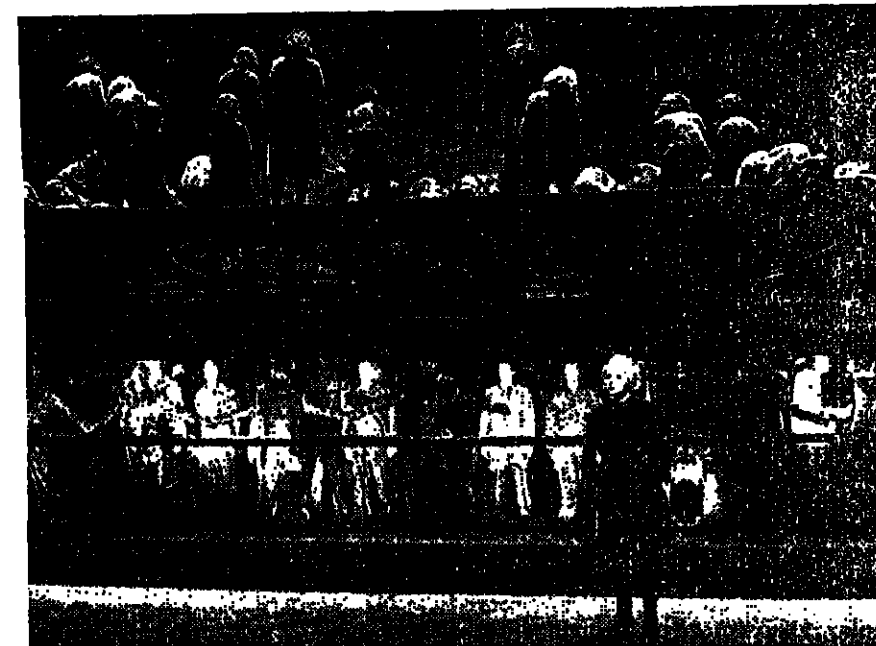
A few young people stripped off and milled round with the throng of scantily clad types. The chilly air in the Sports Palace soon gave them goose pimples and they quickly dressed again.

In short, Julian Beck and Judith Malina never broke free from the spirits they had summoned up.

Paradise now? Paradise later, perhaps. Or maybe paradise never. It remains to be seen.

In its adaptation of *Antigone* a few days before at the Academy of Arts, the Living Theatre had managed to win back some of its old attraction and power to fascinate.

This production manifested for the last time what the company had done to raise the applause of leading international the-



A scene from the Hamburg Staatsoper production of Milko Keleman's 'State of Siege' (Photo: Fritz Peyer)

## Reminiscence central in two new Pinter plays

Harold Pinter's two one-act plays *Silence* and *Landscape* have just had their German premiere at Hamburg's Deutsches Schauspielhaus. Both plays had their premiere in London six months ago.

The theme treated in the two short dramas is not new in Pinter. More original is the form in which the British playwright records predecessors stretching back to Beckett.

The first play *Silence*, like its partner, is practically lacking in action. When the curtain opens the audience is greeted by a large, empty stage. Three chairs are spaced at distances across the steep floor. A woman sits on the middle chair and two men on her right and left. The audience can see their unclear shadows in a giant mirror projection.

They take turns to speak into the void. It soon becomes evident that they are not speaking to each other but to themselves. They are without communication. Each is alone with his or her memories, a few scraps that come to the surface and then disappear.

It is equally evident that all three have had something to do with each other sometime during their lives. Ellen has had a love affair with both Bates and Rumsey, the two men.

But all this is in the past, oppressively so, and the memory has faded alarmingly. The ageing of the body has been accompanied by an ageing of the soul. In the end there is no more than an aura

remaining, a sense of tragedy in a sea of silence, perhaps the only thing that still connects the three people.

In this drama the observer is forced into the role of a listener. As charming as the production of this play is, it remains limited to a few gestures and gesticulations. The audience must concentrate a lot on the words and the stress used. They must devote a maximum of attention and interest for a minimum of events on stage. There are no hard facts. This time Pinter does not provide us with anything spectacular.

Hans Schwoikart relies on the speaking qualities and the precise articulation of the three protagonists, Witte Pohl as Ellen and Günter König and Friedhelm Ptok as Rumsey and Bates. All three presented standards high of elocution.

*Landscape*, the second of the one-act plays, was performed after the interval. This drama continued the theme already touched upon but this time abstract place has become concrete and we see a giant kitchen in a country house. This is familiar Pinter atmosphere. To the left there is a long kitchen table and, way to the right, an armchair.

Now there are only two people instead of three, a married couple aged about fifty, Beth and Duff. Duff was once a butler in this house. He is an uncouth fellow and still likes to visit public houses. His wife has white hair, she has become old and melancholy and seems to be about to indulge in sentiment at any time, at least in the way that Joanna Maria Gorvin plays her.

This time too there is an exchange of reminiscences, both conjure up what they have experienced in the past. But memories do not seem to be true. Nobody could ever believe that the two old people were ever lovers.

This time Schwoikart can act with more effect as producer. He certainly achieves his aim with Duff, played as an uncouth, brutal figure typical of Pinter by Hubert Suchka. He shouts his drinking adventures into his wife's ears. But she cannot hear him. She has switched off long ago and withdrawn to her memories, defending them desperately as they are her only refuge.

Production is based on contrast. On the one hand we have a lament, on the other noisy action. The text is appropriate for this effect. It is simpler and without question more comprehensible than the preceding work *Silence*.

Both the one-act plays are like experiments that show that the playwright has either come to a dead-end or is looking for a new course.

Hellmut Kotschewatzer (Kölnische Nachrichten, 14 January 1970)

Wilhelm Jacobs (Frankfurter Rundschau, 14 January 1970)



## SCIENCE

## Computer tracks prehistoric worms

INSIGHT INTO BEHAVIOUR REACTIONS

Fossilised traces of frass are the only evidence testifying to the existence of many species that are now extinct. The creatures themselves did not fossilise because they were worms with no hard substances that could be fossilised.

Professor Adolf Seilacher, the Tübingen palaeontologist, and his American colleague David M. Raup have now been able to gain insight into the structure and development of behaviour reactions. The fossilised traces of the animals were able to tell them more than rocks in general could. Like detectives searching for a criminal, the researchers used a computer in their investigations.

The routes followed by worms in the deep sea mud in their search for food can be reduced as a series of points in a system of coordinates with an X or a Y axis and traced on a digital computer. The simple movements of orientation must be recorded in the computer programme.

The worm's main concern when feeding on the organic components of the sediment on the surface of the mud is to take advantage of the nutritional possibilities of its environment as rationally as possible.

From its starting point it eats in a straight line before making a 180 degree turn. On the way back it must avoid crossing its old path as this consists of sediment that has already been sifted. This avoidance reaction is called phototaxis.

Until it next turns the worm ploughs a new furrow at some distance from the first.

If the characteristics of a meandering fossil trace — dyctiodora for instance — are fed into a computer it delineates frass tracks left behind in fossil form by this species.

But when researchers wanted the computer with the same programme to delineate more tracks it did not always come up with the same pattern. There were now divergences very similar to the individual variations that are to be found in the different dyctiodora fossil traces.

Divergency was greater when individual details fed into the computer were changed. For instance the length of a turn or a furrow were altered. Now the computer showed frass tracks that are known to palaeontologists from other fossil classes and species. It therefore simulated genetically controlled behaviour reactions.

The researchers write that it is impossible to say to what part of the worm's nervous system the computer programme corresponds, "but it is clear that genetic control does not have to be any more complicated than in our model."

The researchers do not feel that the importance of their experiments lies in the tangible new finds but in the principle of their method and the possibilities offered by computer analysis. This can show,

what behavioural parameters change when one species evolves further into a new species.

Professor Seilacher had already been able in earlier studies to reveal through course of development to increasingly economical exploitation of the sediment through increasingly complicated feeding behaviour.

No meander pattern was present in sediment feeders of the Cambrian period five to six hundred million years ago. Fossils from these rocks show chance movements only.

## Faked artifacts from the Stone Age period

Prehistoric finds that have made a name for themselves on the West German art market since the war include the so-called Cycladic idols, rough-hewn statuettes from the Greek Cyclades islands, strongly stylised marble figurines of men or gods.

Although they are interesting relics of a late Stone Age people from the early civilisation hot-house of the Eastern Mediterranean about whom precious little is known the idols used to be dismissed as primitive.

Nowadays, though, they fetch extremely high prices, a development that has inspired unknown masters to flood the market with forgeries. Karlsruhe art historian Dr Thimme of the Baden state museum and mineralogist Dr Riederer of the Doerner Institute, Munich, report in *Archäologischer Anzeiger*, the archaeological journal.

Besides, experience shows that good forgers adapt their methods to a standard of research. They may well soon begin to use more genuine materials. In even then classification of the marble will one day make it possible to accept forgeries to a particular school.

A method using ultra-violet light and imported from the United States seems to be more promising. In ultra-violet light genuine, that is antique, articles come a bluish-white whereas newly-worked pieces appear reddish-violet.

The solution to the problem, however, would appear to be examination of the sinter crust on the surface of the figurines. Nearly all marble wares dug up in the area in question have a coating of sinter resulting from the circulation of mineral waters below ground.

To this day forgers have been unable to reproduce this layer of calcareous sinter hardened in the course of centuries and millennia and it is most unlikely that they will ever do so.

The forgeries do have a coating of sinter but experiments in Munich revealed that it is plastered on and is loose, even though it may have been coloured brown by chemical means.

Under the microscope the bogus sinter was found to contain granules of pyrite, a mineral that could never be found in the genuine article, still less in a soil in which calcareous waters circulate.

It is, of course, not entirely inconceivable that plaster sinter might occur under natural conditions but they have yet to do so in the area in question and could on no account contain pyrite.

Art mineralogy would appear to have paved the way for effective checking of the bona fides of Cycladic idols, which will protect collectors, museums and dealers from further loss.

In the Ordovician stage 500 to 400 million years ago the meandering path and occasionally spiral forms begin to show through. More complex forms, as closely parallel meandering strips double spirals do not appear until cretaceous period 135 to sixty million years ago.

When a worm exploits its field intensively as a farmer and lays the furrow directly parallel to the one it just made it must travel along the edge of the old one.

Phototaxis is then no longer obligatory. It must keep in constant contact with the old track — this is called thigmotaxis. The development lines these fossils and computer analyses support the assumption that phototaxis and thigmotaxis are genetically determined behaviour reactions.

Gustav Adolf Henning  
(DIE ZEIT, 9 January 1970)

Handelsblatt  
16 January 1970

tools they used left characteristic traces but in individual cases they are none too easy to locate.

Another means of differentiation is the marble used. The original marble is a form whereas the marble used by forgers has flecks of slate that glitter on the surface.

At the same time genuine figurines as one day materials in the speckled sea. The possibility arises because the art of the forgers' marble is to this day unknown and it could possibly hail from the Cyclades or have been used there prehistoric times.

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(Handelsblatt, 16 January 1970)

## EDUCATION

## A better education for the children of foreign workers

Prognosis of Basle calculate that one and a half million foreigners will be employed in the Federal Republic's production and service industries in 1980.

Two thirds of all foreign workers are married. Half of these are followed by their families. This has by no means only economic, legal and political consequences. It also has far-reaching consequences for schools in this country. Children of foreign workers have the same educational rights as those of the host country.

There is the case of Francesca. Since her school registration a year ago she has not been seen in class one single time. But no one has bothered about her.

Her parents live in a single room in a three-room flat. The other two rooms are also occupied by Italian families, one to a room. The one room must serve as kitchen, living room and bedroom.

In spite of this the place is surprisingly clean and tidy. That explains why Francesca stays away from school. Both parents go out to work and, as eldest of three children, Francesca runs the household and also cares for the other two families as both parents there also go out to work.

There has so far been little discussion of the question posed here of whether our educational system can deal with these foreign children. Professor Eberhard Gross, director of Giessen University's seminar for educational sociology, has now done this based on findings in the Federal state of Hesse.

The professor investigated 375 children aged between six and fifteen and attending classes one to ten of elementary

school. Only four had progressed to intermediate school.

On first hearing, it seems gratifying when teachers speak of foreign children fitting harmoniously into classes. Difficulties concerning discipline and the formation of cliques due to linguistic considerations are not very much in evidence. The children are popular with their classmates.

But scepticism should be applied to reports that prejudice is only found in a small number of children. At the age of ten or eleven a child usually begins to associate with larger social groups. This development does not lead to pride of position and prejudices against foreigners until early puberty.

The widespread belief that there would be a growth of tolerance if children of different nationalities were to mix must unfortunately be countered by the observation that prejudice is increased still further by closer contact. But more disturbing than the tension between children from this country and children from abroad are the differences between national groups such as Greeks and Turks.

Actual problems do not begin until performance is considered. The backwardness of foreign children cannot be ignored in spite of the fact that they are on average a year older than other children in their class. It is obvious that in German classes their linguistic performance is particularly weak.

But that is not so decisive as the fact that nobody in our schools seems to be bothering about them. Only in 15.7 per cent of cases are children offered help in

## Higher quota for foreign students

Universities should allow foreign applicants who want to come to take their first university course in the Federal Republic an admission quota of ten per cent in those subjects where there is a limitation on entry.

This was the view of a working committee at Loccum, dealing with foreign students in a memorandum submitted in Bonn to the president of the Education Ministers' Conference. Dr Bernhard Vogel, the Education Minister of Rhineland-Palatinate, and the President of this country's Academic Exchange Service (DAAD), Professor Gerhard Kielwein.

The memorandum contains a comprehensive list of recommendations for reforming the study of foreign students at universities in the Federal Republic. The Loccum working committee was formed two years ago at Loccum's Evangelical Academy.

At a press conference Professor Kielwein appealed to education authorities and universities to find a solution as quickly as possible ensuring that a certain percentage of foreign students were given a place at a university here.

"Helping people to help themselves is the best help that we can give," said Dr Vogel. He believes that educational aid should not only be given to those subjects where there are bottlenecks but also to those subjects where it is relatively easy to give help.

According to DAAD there are at present 22,500 foreign students at universities in the Federal Republic. This is about 7.5 per cent of the total number of students.

(Handelsblatt, 19 January 1970)

## Group investigates university teaching

An inter-departmental research group has just begun work on the topic "The didactics of engineering study" at Berlin's Technical University. The project is being backed by the Volkswagen Foundation who have made an initial grant of 336,000 Marks.

The object of the work is primarily to analyse study aims and the curricula in engineering study at the Technical University and at engineering academies. Later new study plans and teaching methods are to be developed.

This project group financed by the Volkswagen Foundation represents the first stage in the establishment of a department of university teaching at the Technical University of Berlin.

(Frankfurter Allgemeine Zeitung für Deutschland, 13 January 1970)

## Facts of life on television

Almost half of all children today do not have facts of life explained to them sufficiently well at home. Sexual matters are taboo for many parents. "One just does not speak about that."

On the other hand many parents are ready to tell their children the facts of life. But they lack the correct information, psychological judgement and a rational method of instruction.

Now this country's second television channel (ZDF) is to make a further contribution to this subject of great



Children at a handwriting class at the Pelikan Centre

(Photo: Herbert Rogge)

## Children improve their handwriting while playing

Hannoversche Presse

A few weeks ago a post-card arrived at the Pelikan Centre for Handwriting. "Dear Herr Lämmel," it said, "My handwriting is very bad and my parents hope that I will learn to write better with you."

Later the small girl who wrote that post-card sat expectantly in the classroom together with seventeen other children from Hanover, Bremerode, Isernhagen and Burgdorf, all armed with coloured crayons, pens and exercise books.

Arnold Lämmel, an experienced teacher and handwriting expert from Hanover, runs the four-week course, the first of its type in this country.

The children are divided into two groups: those in their third to fifth school-year in one and those in their fifth to seventh year in the other. There the children will play and learn to write well.

"I can't boast of inventing this method myself," says Arnold Lämmel modestly. "It is a synthesis of experiences made by the two educationalists Fröbel and Kuhlmann."

Since 1927 Lämmel has been concerned with the problem of helping children to find a free, flowing handwriting style. His successes speak for themselves. As an expert in matters concerning handwriting Arnold Lämmel has given more than a thousand lectures in all parts of the Federal Republic.

"We are not at school now," said Lämmel at the beginning of the first lesson. "We just want to try and see how we can learn to write better."

And then they began. Enthusiastically they practised curves on the blackboard. This is necessary for a free and flowing style. This practice is accompanied acoustically by nursery rhymes with catchy rhythms.

It was fun. And in the back rows sat four mothers who practised curves and spirals with the same concentration as their children.

"We do not want to pass on a special handwriting style," explained Arnold Lämmel, "only give help in writing."

Helmut Ernst, director of the Pelikan press office, said, "This course is an experiment for us. We can't wait for the results. If the findings are good we shall organise further courses in the autumn."

(Hannoversche Presse, 14 January 1970)

**A LUCKY CATCH...**

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## ■ THE ECONOMY

## Fears of a recession

If you are thinking of sitting through a meeting of the Concerted Action Committee with Federal Minister of Economic Affairs, Karl Schiller, one thing you should bring along with you is a sound constitution!

Eleven solid hours of complicated discussion demanding the most careful attention to detail sort out the sheep from the goats. Weaklings and those of an impatient disposition would be advised to go elsewhere.

Most participants at the conference called by Professor Schiller for Monday 12 January at 2 pm and lasting until Tuesday 13 January at one o'clock in the morning made it.

After all it is useful that those members of our society whose actions, expectations and fears influence our economy discuss matters among themselves and with representatives of the Bonn government.

Differences of opinion cannot all be resolved in the talks. But the industrialists' unions, trades unions, the Bundesbank and the government can put forward their various points of view for their antagonists to see.

In a society as complicated as ours to be informed is the first step towards taking reasonable steps in a reasonable direction.

The common denominator on which discussions of this nature are based is of necessity very small. All were agreed that the economic situation is still very tense and that as a result particular care must be taken that future measures affecting the economy are beneficial and not detrimental to stability and growth.

Various signs, according to State Secretary, Klaus Dieter Arndt, show that the boom is going through a levelling-off process in its current late phase.

Various opinions were expressed at this latest meeting, of course, on how this situation should be regarded. Their general remedy, however, is a series of dampening-down measures, at the centre of which should be a stricter check on economic trends on the part of the central government, state assemblies and local councils.

## The complexity of trade with the Eastern Bloc

That hotly discussed and, somewhat overrated topic, trade with the East, has shown once again that in economic matters two worlds confront each other.

The present Bonn government of Social Democrats must realise that, with the best will in the world, the trade routes to Warsaw, and Bucharest, Prague and Sofia are paved with tough stones.

Although the Cabinet is basically prepared to make great allowances to Poland the discussions which have now been resumed with the Poles are exceedingly difficult, since both sides are having a hard time playing themselves in to the role of trade partner.

Many Bonn politicians are inclined to consider the generous handing out of credit as being sufficient in itself to make a great step forward. But in Poland officials connected with foreign trade affairs obviously have no clear idea what can be done in a country whose economic structure is based on private ownership, and what cannot be done in such a country.



Conductor Schiller leads the concerted action band!

(Cartoon: Klaus Ploier/Westdeutsche Allgemeine Zeitung)

This connection with continued tough measures on the part of the Bundesbank would guarantee braking on all four wheels, which is the sole method of preventing the economic automobile from skidding.

But now as ever it is not just a question of illuminating economic policies by means of statistics. What is still required is acute awareness not only of the best modus operandi, but of the precise moment to put this into action.

The economic measures taken today must check smartly the wave of price increases and at the same time set the economic controls so that the Federal Republic does not steer straight into a recession.

A recession or slump would mean that employers would have to put their workers on short-time or even lay them off altogether. It is not only politicians, needless to say, who balk at this idea.

In the face of these dangers only a very limited degree of room to manoeuvre is offered the politician. Rising prices now are the outcome of ineffective measures last year.

Most of the weapons at the disposal of economics planners, of course, affect only future developments and cannot alter the course that was steered in the past.

Since this is so the Hamburg International Economics Archives are probably right when they claim that at this juncture in time little can be done to check soaring costs and prices.

This development is the inevitable outcome of the failures of economic policies in election year 1969. Chief culprit of course was the delay factor in the decision to revalue the Mark which led to massive wage claims following the wildcat strikes.

All practical considerations must now turn to the second half of 1970. The decisive factor is that in this time increases in prices and wages should not be so great that industrialists find their profits cut so heavily that they are discouraged from making investments.

If this happened we would slide straight into a recession. For this reason tax measures announced far too early in Willy Brandt's government speech last autumn affecting employers and employees have quite rightly been postponed until the second half of this year.

Industrialists who are of the opinion that cuts should be made to consumer spending have applauded.

Karl Schiller, however, did not speak at all of trying to cut down consumer spending. By means of not too severe taxation measures he would like to cut down on industrial investment.

Investment tax, which arose as a consequence of value added tax and will continue to apply until 1972, will, as a result of a change in the law be extended to investments that have escaped the measure so far as a result of the poor formulation and wording of the law.

Industrialists have shown concern at this news. They consider that the mere mention of the possibility of taking this step would lead to another flood of orders and reheat the slowly cooling boom phase.

Tax increases following the Economic Stabilisation Act, a temporary topic of discussions aimed at putting the brakes on the economy, were part of Karl Schiller's "lion taming" act, his whip, so to speak.

He cracked this whip when he wanted to bring recalcitrant discussion partners into line.

Participants noticed that alliances changed, but many cropped up in which the Economic Affairs Minister fought on the side of the trade unions.

The probable future course of the economy seems to be mapped out. Prices cannot be checked, but measures are to be taken to prevent a recession.

Schiller's artillery in this battle consists of tough Bundesbank measures and the determination of Finance Minister Alex Möller to implement a saver's budget in the first six months of this year.

It is to be hoped that Schiller finds more reliable allies in the unions along the way. The initiated want to know that the Chancellor has pointed out clearly to his Economic Affairs Minister that unpopular measures should be avoided. This would be a statement, of the unusually casual way in which Schiller appraises the situation.

Rudolf Herft  
(DIE WELT, 14 January 1970)

## Today's farmers' strength is in the head!

Hannoversche Presse

One are the days when the less intelligent farmer produced the best potatoes. Anyone who hopes to make his fortune from the land nowadays does not need as first priority great knowledge of muscles. His strong point must be his head. He must have, above all, knowledge and experience in questions of business management. He must have a flair for organisation, every bit as much as a manager in industry.

This is the conclusion of agricultural expert Helmut Hiss of Freiburg in his study entitled "Agriculture as a Profession and an Intelligence Test."

He based his survey on 75 farmers in ten Federal Republic villages. He attempted to tie up their intelligence quotient and the viability of their holdings.

Figures for intelligence ratings corresponded to a high degree with figures for agricultural output. Less intelligent farmers did not use their land or their stock to such great advantage as their brighter counterparts.

The measure of a farmer's skill of proficiency is no longer the straightness of his furrows. A neat, carefully added column of figures in a well kept account book is a far better guide. The pen is indeed mightier than the plough!

This study has shown a remarkable resemblance between the background of the successful farmer and that of the successful industrialist.

Helmut Hiss writes: "Top farmers can be looked upon as skilled workers, since the typical gifts of a merchant are among the human talents and correspond greatly to the demands of modern agriculture."

(Hannoversche Presse, 15 January 1970)

## Volkswagen applies price increases

Volkswagen have finally had to fall in line with other car manufacturers in the Federal Republic and raise their prices.

The increases will take effect from January onwards. Average increase will be around 3.5 per cent. A statement from Wolfsburg says that the price of the Beetle (VW 1300), this country's biggest selling car will rise by about 2.9 per cent to 5,350 Marks.

(Frankfurter Allgemeine Zeitung für Deutschland, 14 January 1970)

## ■ INDUSTRY

## Industrial calls for management advice grow ever louder

Industrial consultants in the Federal Republic feel they are on the threshold of a new boom.

Behind raised hands the whisper is going around that in the next few months those who really are able to advise industrialists will be sorted out.

Heads of large firms are prepared to tell anyone who is prepared to listen the problems that are weighing on their minds and will continue to do so. For instance there is the problem of wage payments, the lifting of compulsory insurance levels, results of revaluation and even cheaper imports.

Therefore, with all this in mind, there must be rationalisation programmes wherever this is feasible. Administrative structure must be tightened up, conversion programmes may need to be undertaken and long-term planning is always necessary.

For many industrialists measures such as this are still a book with seven seals. The largest concern is involved in monumental tasks. In fact, the demand for industrial advisers from the top men in industry is almost as great as the demand for doctors from men who are about to embark on long journeys in tropical countries.

It seems advisable to ascertain the tasks and possibilities of industrial advisers. The reason is that now as ever this kind of branded article for solving problems is an unsolved problem in itself.

The three basic questions are: When is an adviser needed? How is one to be found? What protection does an industrialist have from charlatans.

Fifteen years ago in the Federal Republic a company from America began to plough the fallow land or advising companies.

Its methods demanded severe comparative studies. Its measure of success could not keep up the pace. But in the wake of this unsuccessful concern the

idea of industrial consultants became current from the Rhine to the Elbe. The idea gained popularity. Its rise to fame and acclaim is similar to that of investment saving which came ten years later likewise as a result of international activity.

The idea of giving advice to business managers actually originated on German soil in the twenties with the Refa system. But it was only when the Americans got to work on the idea that consulting, as it is sometimes called, really made the breakthrough.

There are still no statistically authenticated figures for the extent of this service in the Federal Republic. There are only estimated figures for the market for business advisers here.

For the past four or five years there has been talk of about 5,000 advisers being at work. Meantime it is thought that even more people have entered this broad field, although some of them have only been operating temporarily.

There is absolutely no official method of examining people who want to make a career out of telling others what to do in this way. None of them can boast any diplomas or qualifications.

In order to create some kind of watchdog committee seven industrial consultants unions have been instituted during the course of the years and affiliated to the working committee of advisory professions.

This include the Federation of Federal Republic Industrial Advisers, the Independent Engineers' Union, the Institute for Economic Advisers, the Auditors' Union, the Society of Advisers for Company Directors and the Association of Business Chiefs and Refa consultants.

Estimates for members of these groups vary between 1,500 and 3,200. It is certain, however, that the largest section of this group is involved in economic work.

Who pawns goods for ready cash nowadays? The answer is: people from all walks of life, labourers and office workers, government officials and the self-employed.

Rarely is the reason for "visiting uncle" dire necessity. Eighty-five to ninety per cent of all those who hock goods redeem them within the set period.

It is mostly a case of small sums of cash being given to the occasional customer who has not worked his or her weekly budget correctly or is suddenly faced with a steeper than expected bill for car repairs.

Foreigners, who have got into financial straits often turn to pawnbrokers to get over the wait until money arrives from home.

Many people hock something to swell the kitty for their holidays or to tide them over after returning from expensive holiday travel penniless.

Boom times for "uncle" are early summer and early autumn and then November, when people start thinking about Christmas shopping, but have not yet received their Christmas bonus.

The way to the pawnbrokers may be taken for purely business reasons. Jewellers and carpet retailers tend to pawn part of their stock in the summer months to have ready cash available or to take advantage of favourable wholesale buying opportunities when they have exhausted their credit with the banks.

So, in fact, though this is not generally known, the ups and downs of the pawning industry correspond largely with

## The pawnbroker's role in the seventies

movements in the general economy over a long period.

A thriving economy brings good business. Naturally people who have committed themselves heavily to the never-never are often hit suddenly by other financial commitments that make life tough for them and they tend to look to "uncle" for help.

But cases of this kind are becoming rarer. In hard times people are far more careful about hire-purchase commitments.

The reason is that the banks and savings institutes give the pawnbrokers hard competition on this score, particularly in recent years when they have allowed their customers to overdraw their current accounts to the tune of one month's or even two month's salary. For this reason the pawnbroking trade is all out to improve its image which it hopes to do by means of advertising. Uncle will cease to be a sinister, little man in a dingy, backstreet emporium. He is to come out into the open.

How do you pawn something? Practical everything that can be carried to the shop can be pledged. Great consideration is given to the credentials of the person seeking the loan. If the borrower has no papers to show the value of the object



Representation for the consultants comes above all from the Federation of Industrial Advisers, and advisers to the engineering profession. Both groups are planning to cooperate and they will possibly have a common business management. However, in all, the number of people working in this sphere has not yet reached the thousand. To someone standing outside looking in a compass would be necessary to find the way through the maze. The great army of minor industrial advisory groups and individual advisers belongs no more to the unions than the large organisations.

The people who give advice in this great labyrinth are the chambers of commerce and the boards of trustees for the rationalisation of the Federal Republic economy.

The Federation of Industrial Advisers belongs to the European Association of Industrial Advisers. It bases its work on the developed fundamentals of American industrial advisers that have been in operation since 1933.

Point one of their manifesto runs thus: "We consider it the supreme duty of industrial adviser to help owners and top management officials of trade and industrial concerns, public authorities and establishments set up for the general good, to analyse and find solutions for questions of leadership and the technicalities of procedure connected with this as well as technical matters."

Point four states: "We act on behalf of concerns employing us and service industries using our facilities only in a proper manner, worthy of our professional status."

Point six: "We claim fees correspond-

ing to the work we have satisfactorily completed and the responsibility we have taken upon ourselves."

These basic principles apply to the more than 60 members in the Federal Republic. It goes without saying that they do not tempt everyone to become a member. But from the point of view of the client they offer substantial security.

With regard to the professional status of advisers the points made by the Americans Wilensky and Mills apply. They have stated that advisers should be largely lawyers, professors and graduates from colleges, public officials particularly from politics and, what is typically American, religion.

But included in the ranks are also research technicians and journalists who have had a certain amount of success in the consulting business in the United States.

Leading companies all over the world have found their organisational work made easier by consultants. Within the ranks of industrial advisers, individuals and large groups alike specialisation has begun.

There are now special branches and institutes devoted to financial advice, marketing ideas, organisational work, production ideas and the like. One of the main aims is to make the greatest possible use of electronic data processing.

It is constantly being pointed out in this country that not only expertise is needed to give this advice, but also psychological qualities. Here more than in the USA and Japan the question of overcoming prejudices arises.

The industrialist and chairman of the board in "Old Germany" has a deeper rooted sense of his own infallibility than is generally accepted. If this is not taken in conjunction with reliable decision-making the result is often to the detriment of the "boss" himself. In such a case advice from without is often easier to swallow than that coming from fellow members of the board.

Industrial advisers do not stand on firm ground. They must always be alive to changes from all sides and even then a radical change within the structure of a company for which they are working could lose them custom.

(Industriekurier, 15 January 1970)

greater the allowance made on this charge which ranges from two to four per cent.

When the amount loaned is over 500 Marks costs may be under two per cent. But the cost of obtaining money from a pawnbroker is not, it can be seen, all that low.

Although the normal period of a loan is three months it is possible to extend this. But a loan covering one year may carry interest charges and costs of about sixty per cent.

Pawnbrokers claim that the high costs result from the high cost of storing and keeping articles. And according to law each article in stock must be insured against theft, fire and burst waterpipes. Great risk is involved. If an article does not fetch at the auction a sufficient sum to cover the original loan, costs and interest, the pawnbroker himself has to pay.

But the pawnbroker stands to gain nothing if a hocked item fetches more than enough at the auction to cover the original loan, costs and interest, not forgetting the auctioneers charge the residue belongs to the original owner, as long as he claims it within two years. After this period the surplus money goes to the state.

In the Federal Republic there are about 140 independent pawnbrokers. One hundred and twenty four concerns with 37 branches are affiliated to the central union of pawnbrokers in this country.

Yearly turnover is about one hundred million Marks.

(Handelsblatt, 14 January 1970)



## TECHNOLOGY

## Krupp's novel ideas on future means of transport

Krupp's of Essen have unveiled plans for the most unusual means of mass transport developed in recent years. The firm's designers have come up with a conveyor belt combination of escalator, zebra crossing and tram for pedestrians.

The principle of locomotion has remained the same since the invention of the wheel — unless, of course, one prefers to travel by Shanks's pony. A means of transport moves towards a destination on, above or underground.

Why, the Krupp designers wondered, should not the ground move? Some kind of conveyor belt would do the trick, and Krupp's know their conveyor belts. They are just starting work on the world's longest conveyor belt, which will be on



the Iberian peninsula and convey phosphate ore over sixty miles.

Krupp's moving pavement is designed to be simple in principle and comfortable for the user. It consists of a segmented steel belt with small platforms for one passenger at a time. The platforms have small posts to hold on to but seats could just as easily be built.

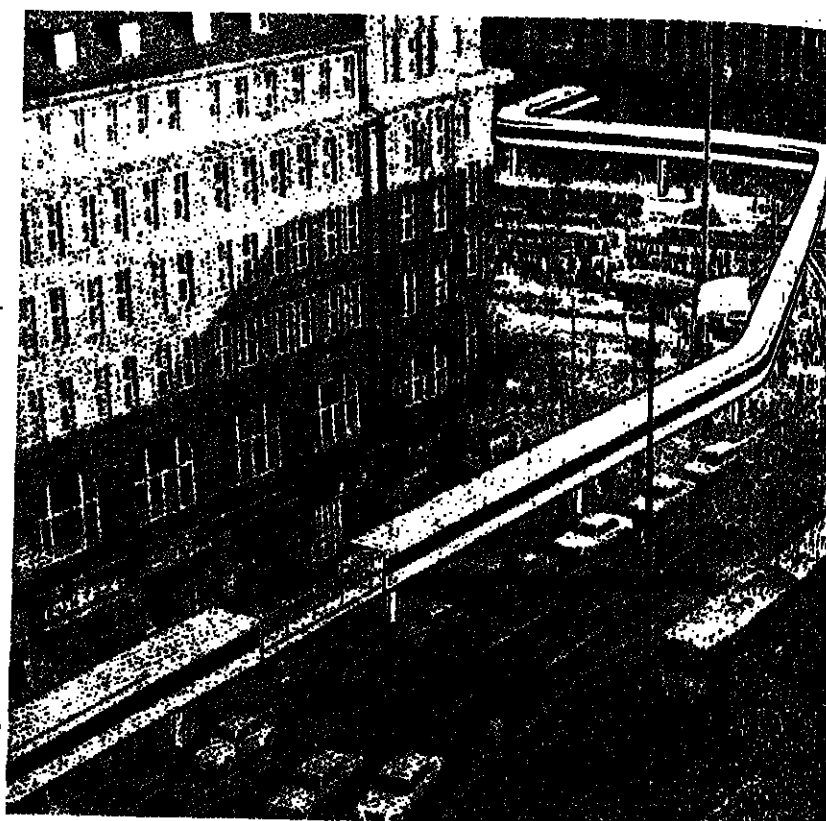
The uses to which the moving pavement can be put are claimed to be virtually unlimited. The belt runs along plastic rollers that require next to no servicing and suffer little from wear and tear. Electric propulsion is inexpensive, safe and noise- and exhaust-free.

Nor is the belt limited to street level, a scarce commodity in city centres. It can be assembled under ground or in mid-air on stilts.

In theory the moving pavement could substitute for city-centre public transport, but this is where the drawbacks become apparent. The belt could travel at sixty miles an hour, but would at that speed be virtually unusable.

The reason why is straightforward. The moving pavement is designed to be in continual motion. There will be no starting and stopping. Passengers can walk on and off whenever they feel so inclined. This limits the maximum speed to three or four miles an hour.

Entire transport networks could be composed of moving pavements. There would be no great technical obstacle in the way of equipping every street in a



A model of a city's conveyor belt of the future (Photo: R)

## Research for tomorrow's world

Professor Carl Friedrich Freiherr von Weizsäcker, head of the newly founded "Max Planck Institute for Research into Living Conditions in the Scientific, Technical World" finds the designation of the research station to be too unwieldy and not convenient enough.

The professor, a physicist and philosopher, who is to head the initial fifteen staff in the institute at Starnberg near Munich, admitted this himself at a press conference in Hamburg.

But also unwieldy are the problems that will be dealt with by the institute devoted primarily to questions of science, the basis of peace research, the pre-conditions for practical development and other similarly complicated investigations.

"Never before has the future been so uncertain as today", Weizsäcker said and defended himself against the suspicion that all he wanted to do in Starnberg was dabble in cheap futurology.

He believes that this uncertainty is due primarily to developments in science and technology that cannot yet be envisaged.

For this very reason, said the holder of the Book Trade's Peace Prize, science itself was needed if we were not to face a changed world completely unprepared.

For the time being about a million Marks a year is available for operations at the newly founded institute. Weizsäcker said that further developments must be awaited unless he was to practise futurology in his own field.

The staff will never exceed fifty or sixty scientists. Instead the institute would prefer to cooperate with other institutes and people in scientific practice. Researchers at the Karlsruhe reactor centre were an example.

Results of research at Starnberg are to be published from time to time. Professor Weizsäcker said that the first publication would probably be a comprehensive project study on results and prevention of war. This report, running probably to some thousand pages, would follow an investigation on the protection of the civil population in the event of war on German territory.

Questions of the stabilising or destabilising effect of armament and limitation of arms and similar problems will also be dealt with together with scientific, technical and sociological investigations.

Individual empirical work will prevent scientists at Starnberg from imprisoning themselves accidentally in an ivory tower. (DIE WELT, 8 January 1970)

## Heidelberg researchers discover new mineral in moon rocks

A hitherto unknown mineral has been discovered in a sample of lunar rock brought back by Apollo 11 at the Max Planck Institute of nuclear physics in Heidelberg.

It will probably be named tranquillite after the Sea of Tranquillity. Professors Josef Zähringer and Paul Ramdohr, announced in Heidelberg on returning from the Apollo conference, held from 5 to 8 January in Houston, Texas.

Eighty-year-old Dr. Ramdohr, retired professor of mineralogy and petrography at Heidelberg and doyen of mineralogy in this country, noted with satisfaction that his assumption that there is not as much titanium on the Moon as initial examination of samples of Apollo 11 lunar rock led researchers to suppose had been borne out by papers delivered at the Houston gathering.

The work carried out at Heidelberg confirms other studies, particularly work carried out in the United States, from which it has been concluded that the dust on the surface of the Moon has not been more than a metre below ground in the last 500 million years.

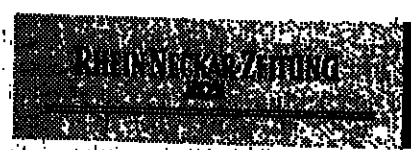
Dr. Zähringer, a space chemist at the Heidelberg Max Planck Institute, estimates the mean age of the lunar sample to be 3,500 million years. On his account it is more than 4,700 million years old.

It can thus be concluded, Zähringer told pressmen at Heidelberg, that the Moon has been an independent heavenly body for this length of time.

Roughly a thousand scientists attended the Houston conference. About half of them were supporters, as Ramdohr chose to call them. Eighty per cent of the 500 scientists who were specialists in appropriate fields hailed from the United States but highly-regarded analyses were submitted by European scientists too, particularly the representatives of this country, Britain, Switzerland and Belgium.

The two Heidelberg scientists named principal investigators by NASA, the US national aeronautics and space administration.

Zähringer, who went into quarantine with the crews of the two Apollo space-



craft, will be accompanying the crew of Apollo 13 on the last stage of their mission too, and is flying to the United States again in April.

Not long ago a further five grammes of lunar rock were despatched to Heidelberg. The initial eleven grammes of Apollo 11 sample were received last autumn.

A sample of rock collected by Apollo 12 is shortly to arrive. It will be delivered as a registered parcel by the postal authorities. Each gram of lunar rock in Heidelberg is insured for 1 million dollars. (RHEIN-NECKAR-ZEITUNG, 14 January 1970)

## Physics society celebrates 125th anniversary



On 14 January the German Physics Society celebrated its 125th anniversary.

The oldest physics society in the world was founded in 1845 in Berlin as the Berlin Physics Society by six young physicists, the oldest of whom was 27-year-old Emil du Bois-Reymond.

Under the chairmanship of E. Warburg the society's name was changed to the German Physics Society in 1899.

Early members included Hermann Helmholtz, Werner Siemens, J.G. Hallé, Kirchhoff, Clausius and Virchow.

A series of highly significant lectures was given at its meetings. On 23 July 1847 Helmholtz spoke on the conservation of energy and confirmed Mayer's theories of conservation.

At a meeting in 1866 Siemens demonstrated the dynamo-electric principle for the first time. The centenary of this year was celebrated by a large memorial meeting.

On 14 December 1900 Max Planck submitted his radiation law which is the basis for the quantum theory and the cause of a fundamental upheaval in all the natural sciences. The eighteenth century thus closed with one of the greatest successes of physics.

As a result of the Second World War the Society foundered in 1945. Separate little societies sprang up in the occupation zones after the war. These merged in 1951 into one association within the framework of the Federal Republic including West Berlin.

When all hope of uniting with the "Physics Society of the German Democratic Republic" disappeared this association reverted to the old name, "German Physics Society" or DPG. Membership is now about 6,500.

Half the members work in research institutes and the other half in industry. The DPG thus includes all physics from basic research to technical application.

A commemoration meeting was held in Berlin's Technical University on 14 January. (Frankfurter Allgemeine Zeitung für Deutschland, 14 January 1970)

## TRADE

## Hamburg is to build Europe's largest inland port



Hamburg's Senator Hellmuth Kern, responsible for the city's port, and port works director Karl-Eduard Naumann started the New Year with a bang. In the New Year's Eve issue of *Die Welt* the daily published in Hamburg, it was announced that the city would soon boast what was called Europe's largest deep-water port, to be built in the Elbe estuary at a cost of 400 million Marks.

According to the two men Europe's largest deep-water port is to be built in and around mud flats off the islands of Neuwerk and Scharhörn bought seven years ago by Burgomaster Paul Nevermann.

It will accommodate tankers and other bulk cargo vessels of up to 350,000 tons capacity and be surrounded by the latest in chemical, petrochemical, shipbuilding and steel plant.

This first-page new item lavishly displayed in a national daily will not have given rise to cries of delight in town-halls and Ministries of the four coastal states.

For months a commission of experts appointed by the four states has been beavering away at determining the best site for a deep-water port on which all four are to collaborate.

Senator Kern's political temperament is such that he could not then resist bringing to light a catch that had been idly lurking in the depths of the deep-water commission's fishing grounds.

Bremen and Lower Saxony will certainly have been annoyed by the Hamburg senator's public relations work. They suspect — and not without a certain degree of justification — that their big brother has decided to present them with a fait accompli before publication of the deep-water commission's report.

They also resent a special kind of blackmail to which the Senator has resorted. Hamburg has hinted that it would go ahead with its mud-flat port using international aid even if the others refuse to participate in the scheme.

An objective issue — where to site the German deep-water port — has thus promptly become a political one. One possible result is that the four states may build ports of their own: Hamburg in Neuwerk, Bremen in Bremerhaven and Lower Saxony in Wilhelmshaven.

The prospects of this solution to the problem being put into practice are far from poor. On the other hand it is as questionable as the entire corpus of ports policy in this country whether the oil companies will be greatly impressed by the joint offer of facilities for 350,000-tonners.

The oil industry is none too keen on the 350,000-tonner. Only a few months ago the fleet director of Royal Dutch Shell, blue-suited Mr J.H. Kirby, stated that 200,000 to 250,000-tonners would be the standard size for supertankers for some time to come.

Tankers of 300,000 tons and over are not particularly economic because of the difficulties they will have, particularly in the North Sea, in finding satisfactory shipping lanes.

Even 500,000-tonners, Mr Kirby maintains, would not be a particularly interesting proposition. Per ton of cargo carried they would be no cheaper than 250,000-tonners. The next tanker generation to hold forth the promise of economic feasibility would be the million-tonner.

Some time in the seventies or eighties, then, Hamburg will have port facilities for conventional supertankers. Wilhelmshaven will cater for 200,000 to 250,000-tonners at an earlier date. Bremen is not interested in tankers because it has neither major refineries nor pipeline facilities.

In another sector, however, Bremen is most interested in going it alone. Two years ago Senator Bortscheller of Bremen approached Senator Kern of Hamburg with his Either You Join In Or I Go It Alone scenario.

His offer was that of a fifty-fifty share in a container port on the coast. Rhineland-Bortscheller undertook to make part of Bremen territory — a site in Bremerhaven — a condominium jointly administered by an operating company in which Bremen and Hamburg would have a fifty-fifty share.

"At some point or other I wanted to bring the pointless disputes between Hamburg and Bremen to an end," Bortscheller commented, adding that "What we need is a united front against Rotterdam."

But Hamburg was not having any. Giving something for nothing goes against the Hanseatic grain and, suspicious of Bortscheller's offer, the city waited a full two years before deciding to build a container port of its own. "They only want our money," was a widespread view among Hamburg shipping circles.

There was talk of fifty million Marks right from the start but Bremen started to build container facilities nonetheless and then, of course, so did Hamburg. Container shipping lines that have to show the flag in both ports must patronise both.

Hamburg's plans are far more ambitious. Backed up by sound finances the city can think in terms of investing far greater sums of money than its rival.

While Bremen's container docks were mainly intended to keep up with developments in general cargo traffic on which the city is dependent Hamburg wants to combine the building of its inland port with attracting new industries. This is, no doubt, why it is in such a hurry to build the new port regardless whether or not the others join in.

Hamburg is in a hurry because it is undergoing a spate of euphoria as regards industrial development. A large electric steelworks is under construction and work on an aluminium works belonging to the Reynolds group is shortly to begin.

In addition public relations campaigns



recommending Hamburg as a base for industries of the future are under preparation and the deep-water port plan, once it is a safe proposition from all angles, cannot fail to make Hamburg an even more attractive location.

The city could well do with this additional support in view of the steadily more ambitious plans of rival Benelux ports.

Rotterdam, on the Rhine estuary, has an annual turnover of more than 150 million tons (as against Hamburg's 38.3 million last year). By means of a strictly conducted development policy Rotterdam has made its way to the top of the international turnover tables and is considered to be unbeatable in Europe at the moment.

It is so in every respect. Rotterdam has the highest turnover figures for both general and bulk cargo and is also the only European port at present in a position to berth the largest tankers afloat.

Antwerp's port planning is blossoming too. By 1980 the men on the Scheldt estuary want to have reached at least 100 million tons of freight a year.

Antwerp is a lock port. No vessel enters or leaves the harbour without having passed the lock gates. This can be problematic for modern shipping because it tends to lengthen turn-round time.

As a result the Antwerp planners are also thinking in terms of siting some of their future port facilities outside the present port area. Similar plans for supertanker facilities are afoot in Amsterdam, too.

At first glance the competition between Hamburg and Antwerp seems a vague affair. The two ports serve quite different hinterlands. The element of competition is plainly evident in industrial development, however.

## The police and TV

Frankfurt police have introduced into their force a new kind of observation car equipped with a television camera and special antennae which radio pictures directly to police headquarters. The vehicle will be used to film known criminals, demonstrators and traffic offenders. (Photo: dpa)

In recent years Rotterdam and Antwerp have been the soul of generosity when it came to attracting new industry. Rotterdam is now no longer so forthcoming but the industry it wanted is now established. The German chemical industry, represented by Bayer, Hoechst and BASF, now has vast expanses of plant on the Rhine estuary.

The unique combination of chemicals, petrochemicals and oil that has settled in Rotterdam is unparalleled and unrepeatable in other European ports. A combination of German ports would be the only conceivable competitor in industrial development.

Other future-orientated industries can also be located on the German coast. Hamburg's imaginative Senator Kern, for instance, has visions of competing with the Japanese shipbuilding industry.

"The Neuwerk project," he says, "could become the largest European shipbuilding base and compete with Japan, where there are already plans for 750,000-tonners."

The modest figure of 400 million Marks that Hamburg's deep-water port is to cost is viewed with scepticism by experts. People who know something about the city's plans because they themselves are involved in their claim that scepticism is without foundation.

(DEUTSCHES ALGEMEINES SONNTAGSBLATT, 11 January 1970)

## Safety cushion inflates with deafening crack

According to Dr. Fiala air sacks are capable of stopping the head from oscillating dangerously during a collision, a reaction that not infrequently leads to spinal injuries or broken necks.

The only drawback is that the sound made on ultra-rapid inflation by means of compressed gas is so loud as to be close to the level at which the eardrum bursts.

The sacks do not inflate exclusively in situations where danger to life and limb is involved, Dr. Fiala told his audience. Car passengers ought not to emerge from

every minor collision stone-deaf. Further research must be carried out on this aspect.

More attention ought also to be paid, the Professor feels, to accidents in which a car is rammed from the side. One injury in four to car passengers is the result of side-on impact. Dr. Fiala particularly advocates strengthening doors so that they absorb more of the force of impact.

He is also dissatisfied with standard car-window glass. "We need safety glass that is capable of taking a four- to eight-inch dent in its stride," he noted. Contrary to the generally-held view the best windscreen is not the one that shatters as easily and splinterlessly as possible. It is the one that gently takes the strain of as much of the impact of a human body catapulted forwards as possible.

(Münchener Merkur, 16 January 1970)



Aden	SA \$ 0.85	Colombia	col. \$ 1.2	Formosa	NT \$ 5.00	Indonesia	Rp. 15.00	Malawi	11 d	Paraguay	G. 15.00	Sudan	PT \$ 5.00
Algeria	Al 10.00	Congo (Brazzaville)	FR F.A. 30.00	France	FF 00.00	Iran	R1 10.00	Malaysia	M. 4.00	Peru	S. 3.60	Syria	£ 3.50
Angola	Bao 1.00	Congo (Kinshasa)	FR F.A. 30.00	Gambia	11 d	Iraq	11 d	Philippines	Phw 0.10	P. R. 12.00	Tanzania	Ea \$ 1.00	
Argentina	\$ m n 4.00	Cuba	Makuta 7.00	Germany	DM 1.00	Israel	1.00	Mexico	\$ 1.60	Poland	Zi 0.50	Thailand	B 3.00
Australia	10 c	Costa Rica	C 0.85	Ghana	cedi 0.12	Italy	11 d	Morocco	DM. 4.00	Portugal	Esc. 1.00	Trinidad and Tobago	11 d
Austria	B 3.00	Cyprus	P 1.13	Greece	Dr 4.00	Great Coast	P.F.A. 20.00	Mozambique	Bsc. 1.00	Rhodesia	11 d	Togo	FC.F. 30.00
Belgium	10 c	Czechoslovakia	Kcs 0.50	Guatemala	Q 0.15	Japan	11 d	Namibia	11 d	Rumania	11 d	Tunkey	T 1.00
Brazil	R 1.50	Dahomey	P.C.F.A. 30.00	Guinea	BW 1.00	Kenya	Ken 50.00	Netherlands Antilles	11 d	Saudi Arabia	RL 0.80	Turkey	£ 1.00
Bulgaria	10 c	Denmark	dkr 0.90	Haiti	C 0.85	Kuwait	11 d	Switzerland	G. ant 0.25	Sweden	SKr 0.50	Uganda	U 1.00
Burma	K 0.80	Ecuador	E 0.50	Honduras (Br.)	\$ BH 0.20	Laos	11 d	Nicaragua	C 0.25	Switzerland	FS 0.50	Uganda	U 1.00
Cambodia	F. Bu 0.10	El Salvador	S 0.50	Hong Kong	HK \$ 0.20	Libya	11 d	Niger	F.C.F.A. 30.00	Uganda	P 25.00	USA	\$ 1.00
Cameroon	F.C.F.A. 30.00	Guatemala	Q 0.15	Hungary	Fl. 1.00	Malawi	11 d	Nigeria	11 d	USA	\$ 1.00	USSR	Rbl. 4.10
Canada	Can. \$ 0.20	Guinea	BW 1.00	Iceland	kr. 0.10	Malaysia	11 d	Norway	nkr 0.80	USA	\$ 1.00	USSR	Rbl. 4.10
Ceylon	Esc. 0.80	Honduras (Br.)	\$ BH 0.20	India	Rs 0.20	Philippines	Phw 0.10	South Korea	Won 3.00	USA	\$ 1.00	USSR	Rbl. 4.10
Chile	Esc. 0.80	Indonesia	Rp. 15.00	Iran	R1 10.00	Poland	Zi 0.50	Spain	P. 1.00	USA	\$ 1.00	USSR	Rbl. 4.10